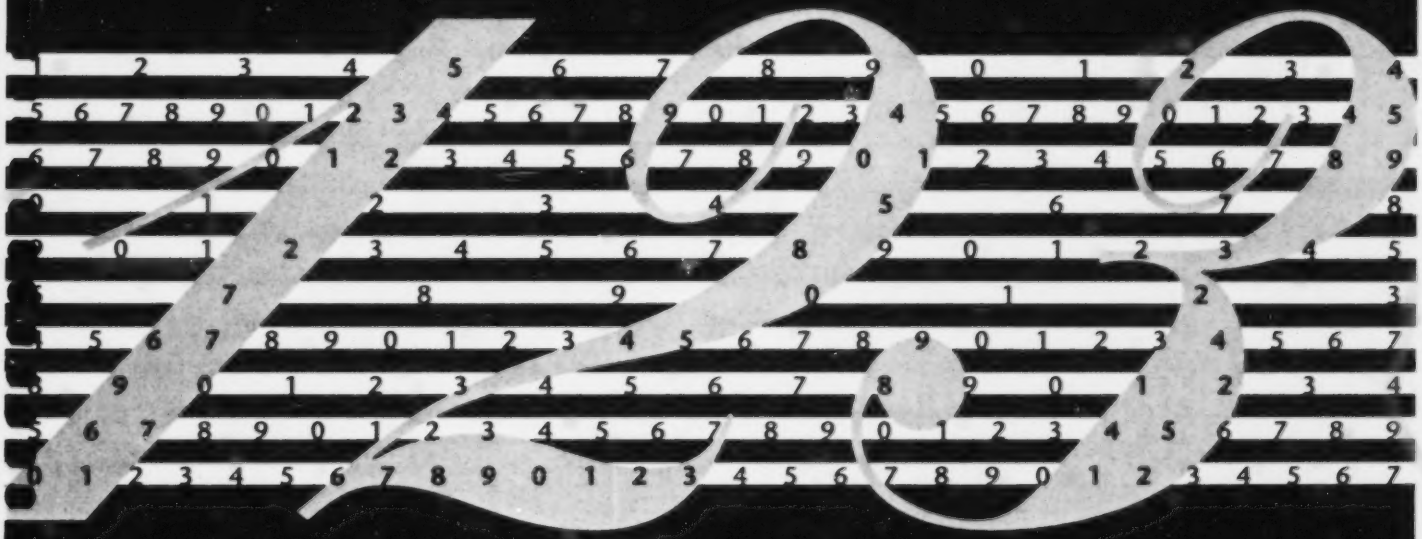
SELECTED VITAL STATISTICS AND HEALTH STATUS INDICATORS

ONE HUNDRED AND THIRTY-FIRST

Annual Report 2002

BRITISH COLUMBIA VITAL STATISTICS AGENCY



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British Columbia
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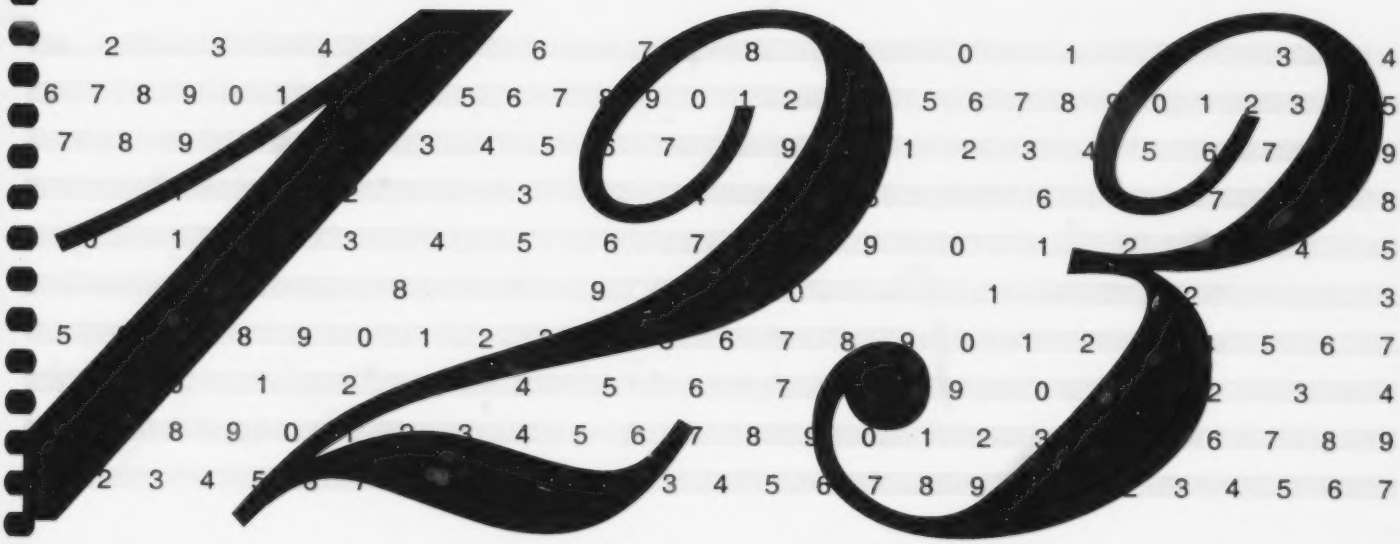

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Foreword

The British Columbia Vital Statistics Agency is pleased to present the 2002 Annual Report, the one hundred and thirty-first published since the establishment of the Division of Vital Statistics in 1872. The tables, figures, and maps in this publication are based on information collected from registrations of live births, stillbirths, deaths, and marriages, and update provisional statistics released throughout the year in the Agency's Quarterly Digest.

This publication contains tables, figures, and maps that summarize selected information about the health of British Columbians. The report includes a detailed glossary, defining the terms and statistical methods used in the body of the publication, a list of the Agency's recent publications, and a set of Information Boxes to supplement the standard tables.

Beginning with the 2000 Annual Report the Agency has presented data using the tenth revision of the World Health Organization's International Classification of Diseases (ICD-10) coding scheme. Where possible, this report follows a format consistent with previous annual reports that present statistics from the current year along with comparative statistics from the preceding five years. Many changes in the codes and in the rules for selection of the underlying cause of death preclude direct comparison of data in ICD-10 with data from prior to 2000. Extensive manual reviews using translation tables in conjunction with recoding of data from ICD-9 to ICD-10 enabled the production of trend data. This approach is unique to publications of this Agency.

The 2002 Annual Report includes a greatly expanded section on trends over time in vital events in British Columbia. The addition of more information on trends allows the placing of the 2002 information and the resulting year-to-year changes in statistics into historical context. While considerable amount of extra information is included, most of the information on trends presented in previous versions of the Annual Report has been included.

The information in the 2002 Annual Report was produced using the Agency's VISTA data warehouse. The use of the data warehouse has greatly simplified the production of the information for the Report. In the future most of the aggregate statistics produced by the Agency will also be produced using the VISTA data warehouse.

Vital Statistics would like to acknowledge the many groups and individuals who ensure complete and accurate recording of vital events. Their contributions have resulted in continual improvement in the quality of vital event data.

R.J. Danderfer
CEO/Director
British Columbia Vital Statistics Agency

This annual report is also available on our website:

http://www.vs.gov.bc.ca/

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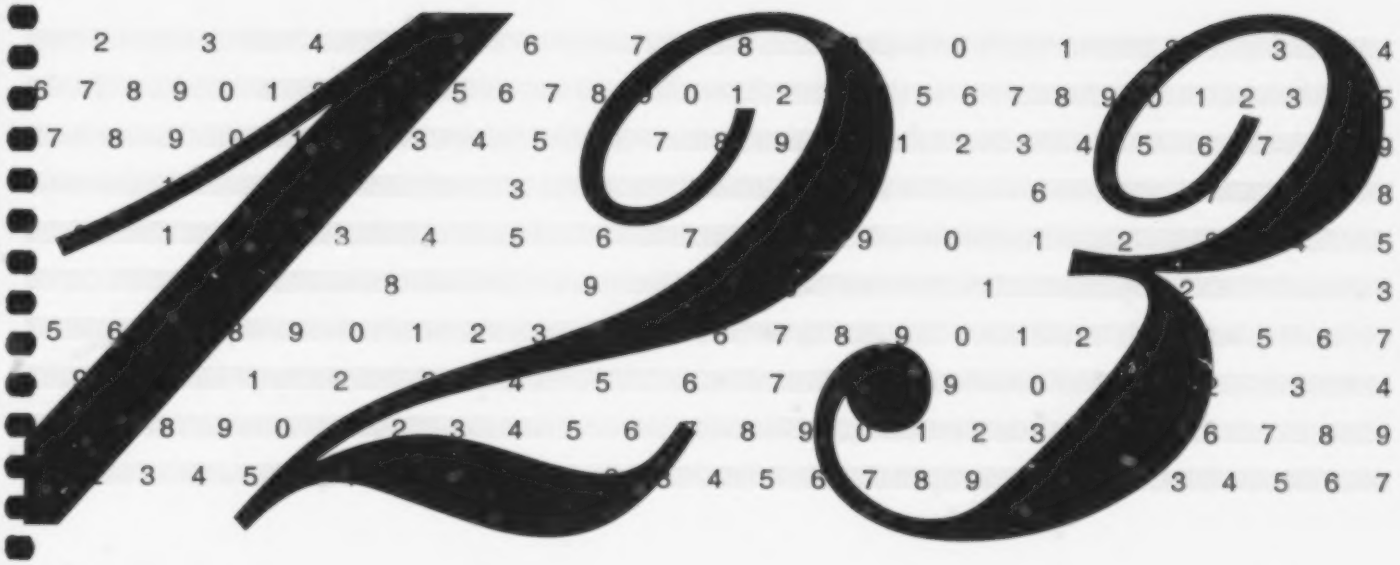
Introduction



Introduction

The Vital Statistics Agency is responsible for the ascertainment, registration, and certification of vital events through the administration of the *Vital Statistics Act*, *Marriage Act*, and *Name Act*. Statistical information contained in this report is summary data provided by the Agency for use by government agencies, health planners, researchers, and the general public. In order to maintain confidentiality, the information does not disclose personally identifiable data.

VITAL EVENT DATA

Live birth, stillbirth, and death statistics in this report summarize events that occurred in the province for British Columbia residents only, and exclude events to non-residents except where specifically noted. Statistics do not include events for British Columbia residents that occurred outside the province; Statistics Canada, in its publications, makes adjustments for events that occur to Canadians outside their province of usual residence. Marriage statistics summarize all events that occurred in the province to either residents or non-residents.

Data presented in this report are based on registrations of birth, stillbirth, death, and marriage as reported to the British Columbia Vital Statistics Agency. Registration requirements for each type of event are outlined briefly as follows:

Live Births: *The Vital Statistics Act* prescribes the legal requirements for the registration of live births. The parent(s) of the child have the responsibility to complete the Registration of Live Birth within 30 days of the event. The physician or registered midwife who was in attendance at the birth must complete a *Notice of Live Birth or Stillbirth* (NOB) form. Other requirements must be met if the birth was not attended by a physician or registered midwife.

Stillbirths: In the event of a stil'birth, the parent(s) must complete the Registration of Stillbirth. The physician or registered midwife who was in attendance at the birth must complete a *Notice of Live Birth or Stillbirth* (NOB) form. In addition, a physician or coroner is required to complete the Medical Certification of Stillbirth portion of the Registration of Stillbirth and deliver it to the funeral director who in turn submits it to the Agency.

Deaths: The physician in attendance at the last illness of the deceased person, or the coroner conducting an inquiry into the death of the person is required to complete a Medical Certification of Death. In addition, the Registration of Death is completed by the informant with assistance from the funeral home. Funeral Directors obtain the Medical Certification of Death, issue the burial permit, and submit the Medical Certification of Death and the Registration of Death documents to the Agency to complete the registration.

Marriages: The *Marriage Act* prescribes the legal qualifications of individuals to marry, the authorization of Religious Representatives and Marriage Commissioners to perform the marriage ceremony, and the solemnization of marriage. Under the *Marriage Act*, the Agency licences Religious Representatives of established religious denominations who desire the authority to solemnize marriage. The Agency recommends for appointment Marriage Licence Issuers and Marriage Commissioners to perform civil ceremonies.

Couples who meet the legal qualifications to marry must obtain a marriage licence up to 90 days before the ceremony. They can choose a civil ceremony performed by a Marriage Commissioner or a religious ceremony performed by a Religious Representative. The Registration of Marriage is completed by the officiant after the ceremony, and must be signed by the officiant, the bride and groom, and two witnesses.

MEDICAL CODING

The *Notice of Live Birth or Stillbirth* includes information on birth weight, gestation, and mode of delivery, as well as abnormalities of the infant and complications of pregnancy, labour, and delivery. The *Medical Certification of Death* and the *Medical Certification of Stillbirth* include information on the immediate cause of death or stillbirth, antecedent causes giving rise to the immediate cause, and other significant conditions contributing to the death or stillbirth. This information is processed by medically trained staff using the World Health Organization's International Classification of Diseases (ICD) coding scheme. In Some instances the Agency's medical coding staff has determined that strict adherence to the automated ICD classification process would misstate the intention of the physician completing the *Medical Certification of Death*. In these cases the Agency deviates slightly from ICD coding for the material presented in this report. Data coded to automated ICD classification standards are maintained by the Agency for comparison to other jurisdictions or submission to Statistics Canada. Data presented in this report does not necessarily correspond to data for British Columbia published elsewhere.

Since the early 1900s, the International Classification of Diseases has been revised regularly in order to reflect advances in medical science and changes in diagnostic terminology. The ninth revision of ICD (ICD-9) was used for medical coding of birth complications and causes of death from 1979 until 1999. Coding according to the tenth revision (ICD-10) was implemented at the beginning of the year 2000. Many changes in the codes and in the rules for selection of the underlying cause of death precluded direct comparison of data in ICD-10 with data from earlier years. Translation tables were used, and extensive manual reviews and recoding of data from ICD-9 to ICD-10 was completed in order to be able to provide trend data in this annual report.

TIME PERIODS

This report primarily pertains to events that occurred in the calendar year 2002, but some data is presented either as a time series or aggregated for the five-year period, 1997-2001 These broader time periods provide context for the 2002 data and permit more meaningful tests of statistical significance when analyzing data at sub-provincial levels, and can smooth out random fluctuations that occur when annual numbers are small. For regional health status profiles, readers are encouraged to refer to measures of statistical significance and use data presented for the five-year aggregates.

It should be noted that data prior to 2000 have been updated based on ICD-10 rules. Results may differ from earlier publications due to changes in the definition of diagnosis categories. Readers should treat this report as a replacement of previous publications and avoid comparisons with tables in earlier publications.

POPULATION DATA

Population estimates for incorporated communities, local health areas, and health regions were provided by BC STATS, Ministry of Management Services. In the mortality section of this report, a 'standard population' is used in the calculation of Age Standardized Mortality Rates (ASMR) and Potential Years Of Life Lost Standardized Rates (PYLLSR). The Agency has used the 1991 Canadian Census population as the 'standard population' in the calculation of these age-standardized measures since 1998. Please refer to Standard Population in the Glossary for a more detailed description.

SPATIAL ANALYSIS AND MAPPING

This report presents regional analyses using data dissemination areas used by the Ministries of Health (Health Authority, Health Service Delivery Area, and Local Health Area) and for incorporated communities. This continues the practice established in 2001 and provides Health Authorities a consistent time series of health status indicators for their governance regions. Vital events are allocated to these data dissemination areas by the postal codes recorded on registration documents. Marriages are assigned geographically by the postal code of the location where the marriage ceremony was performed and other vital events are assigned by the usual residence of the parents (for live births and stillbirths) or the decedent (for deaths).

The maps in this report present local health area (LHA) data ranked by quintiles and allow easy visual examination of spatial patterns. Although statistics for all LHAs are presented in the maps, emphasis should be placed on those that are statistically significant.

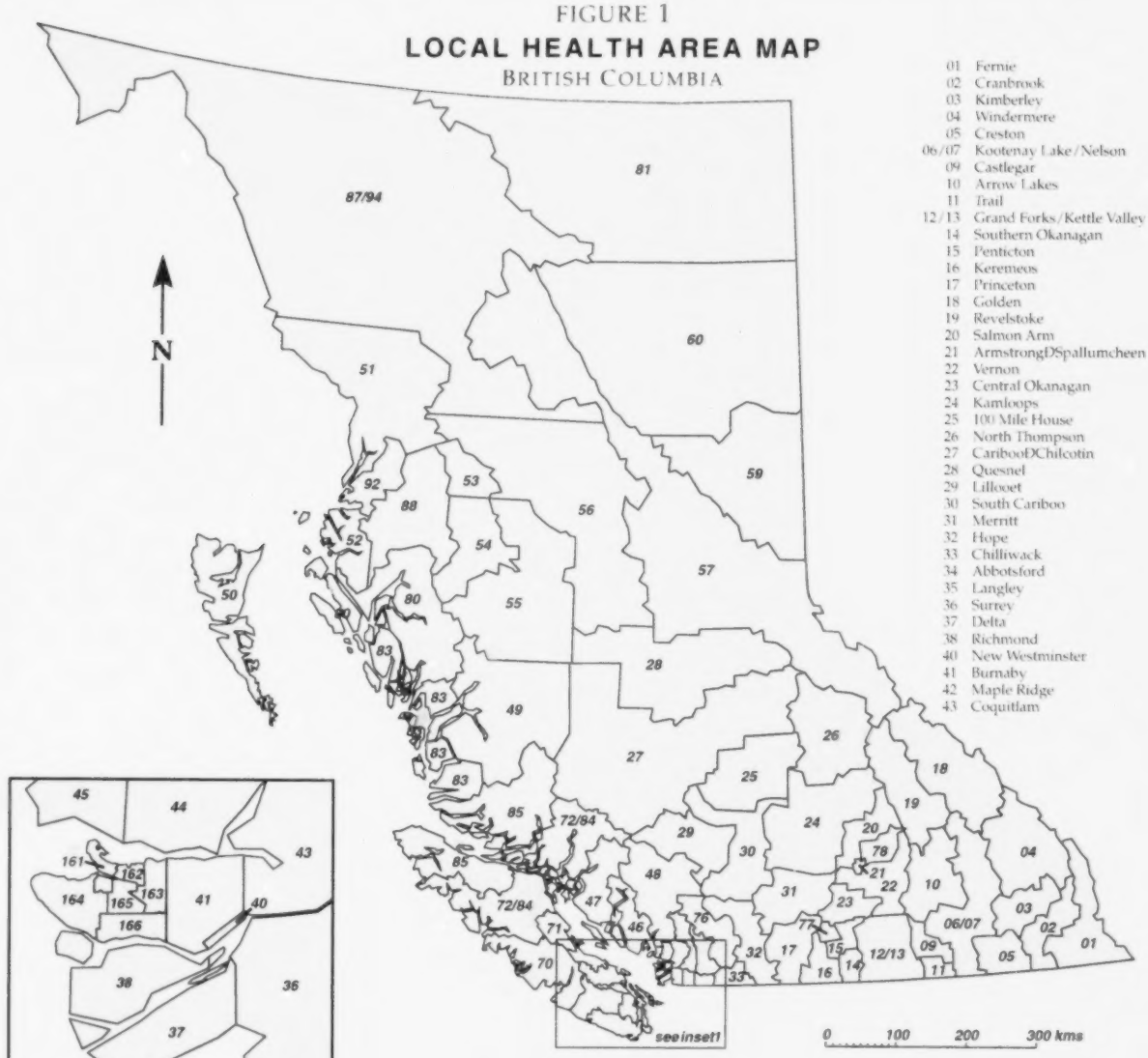
TERMS, METHODS, AND COMPUTATIONAL EXAMPLES

Readers are encouraged to refer to the glossary for explanations of terms and methodologies. In addition, the glossary provides examples of computations of measures and statistical tests.

FIGURE 1

LOCAL HEALTH AREA MAP

BRITISH COLUMBIA

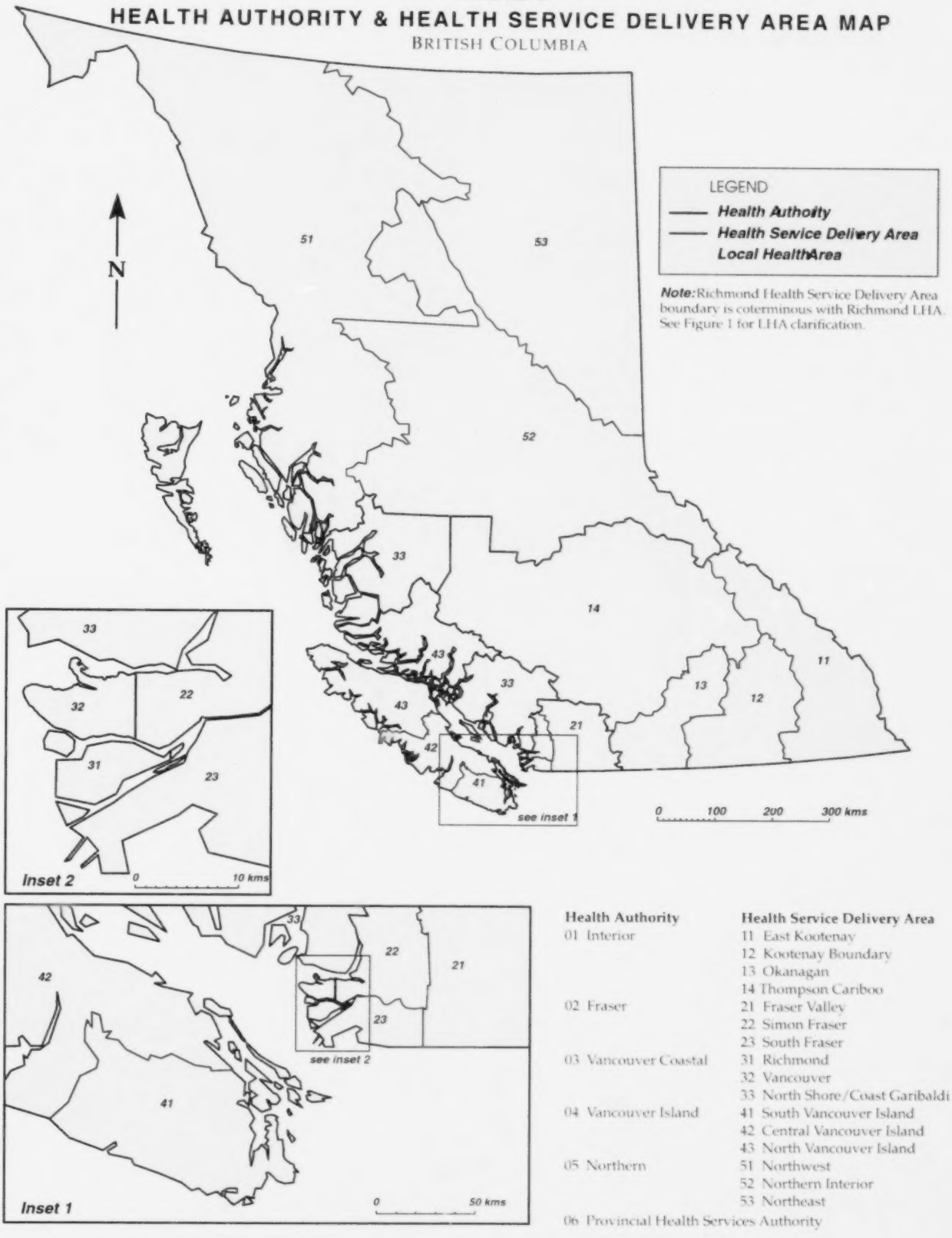


01 Fernie
02 Cranbrook
03 Kimberley
04 Windermere
05 Creston
06/07 Kootenay Lake/Nelson
09 Castlegar
10 Arrow Lakes
11 Trail
12/13 Grand Forks/Kettle Valley
14 Southern Okanagan
15 Penticton
16 Keremeos
17 Princeton
18 Golden
19 Revelstoke
20 Salmon Arm
21 ArmstrongÐSpallumcheen
22 Vernon
23 Central Okanagan
24 Kamloops
25 100 Mile House
26 North Thompson
27 CaribooÐChilcotin
28 Quesnel
29 Lillooet
30 South Cariboo
31 Merritt
32 Hope
33 Chilliwack
34 Abbotsford
35 Langley
36 Surrey
37 Delta
38 Richmond
40 New Westminster
41 Burnaby
42 Maple Ridge
43 Coquitlam
44 North Vancouver
45 West Vancouver/Bowen Is.
46 Sunshine Coast
47 Powell River
48 Howe Sound
49 Bella Coola Valley
50 Queen Charlotte
51 Snow Country
52 Prince Rupert
53 Upper Skeena
54 Smithers
55 Burns Lake (incl. Eutsuk)
56 Nechako
57 Prince George
59 Peace River South
60 Peace River North
61 Greater Victoria
62 Sooke
63 Saanich
64 Gulf Islands
65 Cowichan
66 Lake Cowichan
67 Ladysmith
68 Nanaimo
69 Qualicum
70 Alberni
71 Courtenay
72/84 Campbell River/ Vancouver Isl. West
75 Mission
76 AgassizÐHarrison
77 Summerland
78 Enderby
80 Kitimat
81 Fort Nelson
83 Central Coast
85 Vancouver Island North
87/94 Stikine/Telegraph Creek
88 Terrace
92 NisgaÓa
161 Vancouver City Centre
162 Vancouver Downtown East Side
163 Vancouver North East
164 Vancouver West Side
165 Vancouver Midtown
166 Vancouver South

FIGURE 2

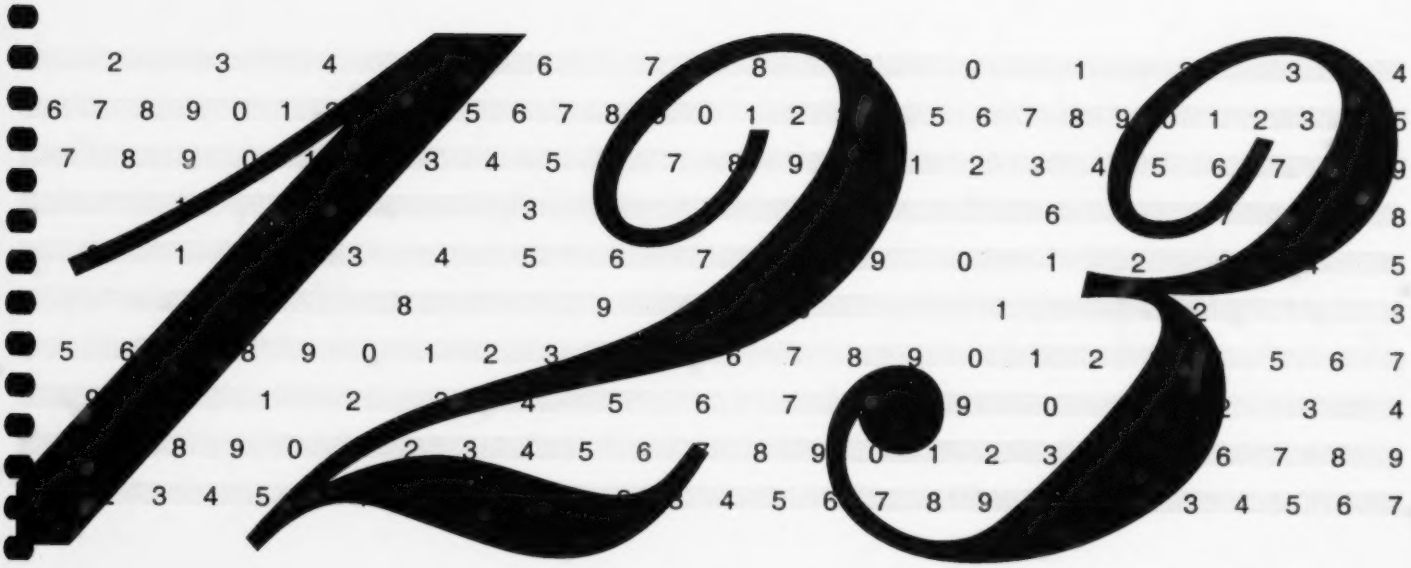
HEALTH AUTHORITY & HEALTH SERVICE DELIVERY AREA MAP

BRITISH COLUMBIA



Health Authority	Health Service Delivery Area
01 Interior	11 East Kootenay
	12 Kootenay Boundary
	13 Okanagan
	14 Thompson Cariboo
02 Fraser	21 Fraser Valley
	22 Simon Fraser
	23 South Fraser
03 Vancouver Coastal	31 Richmond
	32 Vancouver
	33 North Shore/Coast Garibaldi
04 Vancouver Island	41 South Vancouver Island
	42 Central Vancouver Island
	43 North Vancouver Island
05 Northern	51 Northwest
	52 Northern Interior
	53 Northeast
06 Provincial Health Services Authority	

Trends in Vital Events-related Statistics



VITAL STATISTICS INFORMATION BOX

ON A TYPICAL DAY IN BRITISH COLUMBIA IN 2002

109 LIVE BIRTHS OCCURRED IN THE PROVINCE TO B.C. RESIDENTS:

- 56 males and 53 females were born
- 57 live births involved maternal complications
- 37 babies had perinatal complications
- 31 were cesarean deliveries
- 8 were pre-term
- 6 were low birth weight babies
- 4 were born to teenage mother
- 22 were born to mothers 35+ years old
- 3 were multiple births
- 8 stillbirths every 10 days

79 DEATHS OCCURRED IN THE PROVINCE TO B.C. RESIDENTS:

- 40 males and 39 females died
- 27 deaths were due to diseases of the circulatory system including:
  - 19 from cardiovascular disease
  - 6 from cerebrovascular disease
- 22 deaths were due to cancer including:
  - 6 lung cancer
  - 2 colorectal cancer
  - 2 female breast cancer
  - 1 prostate cancer
- 16 deaths were attributable to tobacco smoking
- 8 deaths were due to diseases of the respiratory system including:
  - 3 from pneumonia/influenza
  - 3 from chronic lung disease
- 4 deaths resulted from accidents and violence including:
  - 1 suicide
  - 1 motor vehicle accident
  - 1 homicide every 10 days
- 5 deaths were alcohol-related, 1 directly and 4 indirectly due to alcohol
- 1 death was drug-induced
- 2 deaths were due to diabetes
- 2 deaths were due to Alzheimer's disease
- 1 death was due to to vascular/senile dementia
- 3 deaths every 10 days were from HIV disease
- 5 infant deaths every 10 days

58 MARRIAGES WERE SOLEMNIZED IN B.C.:

- 34 were civil ceremonies and 24 were performed by religious representatives
- 35 marriages were to couples where both parties were marrying for the first time
- 2 marriages every 10 days were to couples where both parties were teenagers

2002 in Context

Historical information on the vital statistics of the British Columbia population is presented in this section. This allows readers to examine the changes in annual live birth, stillbirth, death, and marriage rates and to put current year statistics in the larger context. In addition the section highlights certain features of this report that are of special interest.

Since 1950, as the population of British Columbia tripled, demographic and social changes had significant impacts on vital events. Provincial rates for marriages, fertility, live births and stillbirths fell to about half the rates seen in 1950, while mortality rates declined by nearly a third. The most striking change was a dramatic decline in infant mortality.

- In 2002, there were 39,893 live births in the province to B.C. residents. The number of live births decreased by 499 births from 40,392 in 2001. The birth rate, 9.6 live births per 1,000 population, was the lowest birth rate to date.
- There were 28,686 deaths of British Columbia residents in the province in 2002, up 1.6% from the previous year (28,226). The 2002 crude death rate was 6.9 deaths per 1,000 population, the same as in 2001.
- A total of 21,245 marriages were solemnized in the province in 2002, an increase from 20,567 marriages in 2001. The marriage rate also increased in 2002 to 5.1 per 1,000 population, up from 5.0 in 2001. Marriage rates showed a downward trend from 1988 to 2001.
- There were 296 stillbirths to B.C. residents in 2002, an increase from 282 in 2001. The stillbirth rate was 7.4 per 1,000 total births (live births and stillbirths) in 2002.
- In 2002, the 39,893 births and 28,686 deaths in the province produced a rate of natural population growth of 2.7 per 1,000 population. The 2002 rate of natural population growth for B.C. was the lowest since at least 1950, and the first year with a rate below 3.0 per 1,000 population.
- The Total Fertility Rate for B.C. was 1,351 births per 1,000 women of child bearing age (15 to 44 years of age), the lowest since 1959.
- In 2002, there were 177 infant deaths (age at death less than one year) in the province, for an infant mortality rate of 4.4 per 1,000 live births. This is an increase from 162 infant deaths and an infant mortality rate of 4.0 per 1,000 live births in 2001. The smallest numbers and lowest rates of infant mortality occurred in 1998 to 2001.
- The average ages of brides and grooms have climbed steadily since 1977. In 2002, the average age of all brides was 32.5 years old, while grooms were 35.3 years old.

TABLE 1
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS
BRITISH COLUMBIA, 1950–2002

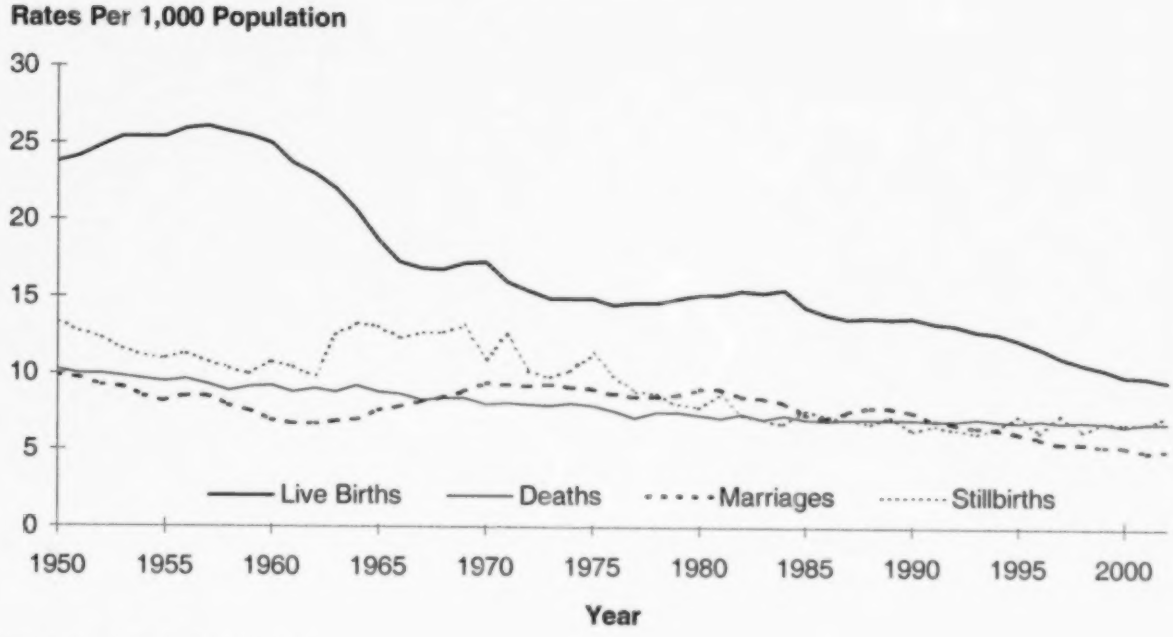
Year	Mid-year Population	Live Births		Deaths		Marriages		Stillbirths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,137,000	27,116	23.8	11,581	10.2	11,110	9.8	369	13.4
1951	1,165,210	28,077	24.1	11,638	10.0	11,272	9.7	365	12.8
1952	1,205,000	29,827	24.8	12,080	10.0	11,081	9.2	375	12.4
1953	1,248,000	31,746	25.4	12,218	9.8	11,298	9.1	375	11.7
1954	1,295,000	32,946	25.4	12,414	9.6	10,991	8.5	373	11.2
1955	1,342,000	34,138	25.4	12,816	9.5	11,011	8.2	381	11.0
1956	1,398,464	36,241	25.9	13,415	9.6	11,950	8.5	413	11.3
1957	1,482,000	38,744	26.1	13,711	9.3	12,620	8.5	422	10.8
1958	1,538,000	39,577	25.7	13,741	8.9	12,094	7.9	414	10.4
1959	1,567,000	39,971	25.5	14,336	9.1	11,910	7.6	404	10.0
1960	1,602,000	40,116	25.0	14,696	9.2	11,203	7.0	437	10.8
1961	1,629,100	38,591	23.7	14,403	8.8	10,935	6.7	410	10.5
1962	1,660,000	38,128	23.0	14,912	9.0	11,196	6.7	377	9.8
1963	1,699,000	37,478	22.1	15,029	8.8	11,677	6.9	476	12.5
1964	1,745,000	35,897	20.6	16,051	9.2	12,158	7.0	485	13.3
1965	1,797,000	33,669	18.7	15,784	8.8	13,639	7.6	447	13.1
1966	1,873,674	32,502	17.3	16,290	8.7	14,682	7.8	409	12.4
1967	1,945,000	32,899	16.9	16,170	8.3	16,026	8.2	422	12.7
1968	2,003,000	33,687	16.8	16,828	8.4	16,914	8.4	433	12.7
1969	2,060,000	35,383	17.2	17,377	8.4	18,284	8.9	468	13.1
1970	2,128,000	36,861	17.3	17,020	8.0	20,020	9.4	407	10.9
1971	2,184,620	34,852	16.0	17,783	8.1	20,389	9.3	442	12.5
1972	2,241,400	34,563	15.4	18,021	8.0	20,659	9.2	356	10.2
1973	2,302,400	34,352	14.9	18,095	7.9	21,303	9.3	339	9.8
1974	2,375,700	35,450	14.9	19,177	8.1	21,734	9.1	364	10.2
1975	2,433,200	36,281	14.9	19,151	7.9	21,824	9.0	414	11.3
1976	2,466,610	35,848	14.5	18,788	7.6	21,536	8.7	361	10.0
1977	2,493,800	36,691	14.7	18,021	7.2	21,156	8.5	330	8.9
1978	2,530,100	37,231	14.7	19,057	7.5	21,388	8.5	331	8.8
1979	2,571,200	38,432	14.9	19,204	7.5	22,087	8.6	313	8.1
1980	2,640,100	40,104	15.2	19,371	7.3	23,830	9.0	316	7.8
1981	2,744,470	41,679	15.2	19,857	7.2	24,694	9.0	371	8.8
1982	2,787,700	42,942	15.4	20,704	7.4	23,831	8.5	317	7.3
1983	2,813,800	43,047	15.3	19,895	7.1	23,692	8.4	310	7.1
1984	2,847,700	44,040	15.5	20,781	7.3	23,394	8.2	303	6.8
1985	2,990,000	42,989	14.4	21,131	7.1	22,270	7.4	333	7.7
1986	3,020,400	41,845	13.9	21,006	7.0	21,819	7.2	309	7.3
1987	3,064,600	41,655	13.6	21,619	7.1	23,377	7.6	297	7.1
1988	3,128,200	42,913	13.7	22,361	7.1	24,469	7.8	292	6.8
1989	3,209,200	43,585	13.6	22,780	7.1	25,154	7.8	319	7.3
1990	3,300,100	45,333	13.7	23,398	7.1	25,185	7.6	292	6.4
1991	3,379,800	45,308	13.4	23,794	7.0	23,648	7.0	306	6.7
1992	3,476,868	46,048	13.2	24,445	7.0	23,756	6.8	301	6.5
1993	3,571,524	45,931	12.9	25,601	7.2	23,473	6.6	286	6.2
1994	3,681,750	46,850	12.7	25,824	7.0	23,763	6.5	312	6.6
1995	3,784,008	46,702	12.3	26,221	6.9	23,629	6.2	350	7.4
1996	3,882,043	45,955	11.8	27,388	7.1	22,882	5.9	292	6.3
1997	3,959,698	44,399	11.2	27,260	6.9	21,883	5.5	335	7.5
1998	3,997,113	42,863	10.7	27,807	7.0	21,774	5.5	278	6.4
1999	4,028,280	41,746	10.4	27,859	6.9	21,626	5.4	294	7.0
2000	4,060,113	40,491	10.0	27,308	6.7	22,093	5.4	281	6.9
2001	4,101,579	40,392	9.9	28,226	6.9	20,567	5.0	282	6.9
2002	4,141,272	39,893	9.6	28,686	6.9	21,245	5.1	296	7.4

Note: Rates for live births, deaths and marriages are crude rates per 1,000 population.
Stillbirth rates are per 1,000 total births (live births plus stillbirths).
The definition of a stillbirth was revised in 1963 and 1986 (see Glossary).
Population information from BC STATS, Ministry of Management Services.
Above information includes late registrations and amendments.
Gender unknown included. Non-residents are excluded from all data except marriages.

FIGURE 3

CRUDE RATES OF LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS

BRITISH COLUMBIA, 1950–2002



Note: Stillbirth per 1,000 total births

HIGHLIGHTS TO TABLE 1/FIGURE 3

Since 1950, as the population of British Columbia tripled, demographic and social changes had significant impacts on vital events. Provincial rates for live births, stillbirths, and marriages in 2002 have fallen to about half the rates seen in 1950, while mortality rates declined by nearly a third.

- In 2002, there were 39,893 live births in the province to B.C. residents. The number of live births decreased by 499 births from 40,392 in 2001. The birth rate, 9.6 live births per 1,000 population, was the lowest birth rate to date.
- There were 28,686 deaths of British Columbia residents in the province in 2002, up 1.6% from the previous year (28,226). The 2002 crude death rate was 6.9 deaths per 1,000 population, the same as in 2001.
- A total of 21,245 marriages were solemnized in the province in 2002, an increase from 20,567 marriages in 2001. The marriage rate also increased in 2002 to 5.1 per 1,000 population, up from 5.0 in 2001. Marriage rates showed a downward trend from 1988 to 2001. Marriage statistics in this publication include all marriages that took place in the province, including those where one or both parties were non-B.C. residents.
- There were 296 stillbirths to B.C. residents in 2002, an increase from 282 in 2001. The stillbirth rate was 7.4 per 1,000 total births (live births and stillbirths) in 2002. Stillbirth rates have fluctuated between 6.2 and 7.5 in the last decade.

TABLE 2

TRENDS OF NATURAL POPULATION INCREASES

BRITISH COLUMBIA AND CANADA, 1950–2002

Year	Rate B.C.	Rate Canada	Year	Rate B.C.	Rate Canada
1950	13.7	18.0	1977	7.5	8.4
1951	14.1	18.2	1978	7.2	8.1
1952	14.7	19.2	1979	7.5	8.4
1953	15.6	19.5	1980	7.9	8.3
1954	15.9	20.3	1981	8.0	8.0
1955	15.9	20.0	1982	8.0	7.9
1956	16.3	19.8	1983	8.2	7.8
1957	16.9	20.0	1984	8.2	7.8
1958	16.8	19.6	1985	7.3	7.5
1959	16.4	19.4	1986	6.9	7.2
1960	15.9	19.0	1987	6.5	7.0
1961	14.8	18.4	1988	6.6	7.0
1962	14.0	17.6	1989	6.5	7.4
1963	13.2	16.8	1990	6.6	7.7
1964	11.4	15.9	1991	6.4	7.4
1965	10.0	13.7	1992	6.2	7.1
1966	8.7	11.9	1993	5.7	6.4
1967	8.6	10.8	1994	5.7	6.1
1968	8.4	10.2	1995	5.4	5.7
1969	8.7	10.3	1996	4.8	5.2
1970	9.3	10.1	1997	4.3	4.4
1971	7.8	9.5	1998	3.8	4.1
1972	7.4	8.5	1999	3.4	3.8
1973	7.1	8.1	2000	3.2	*
1974	6.8	8.0	2001	3.0	*
1975	7.0	8.5	2002	2.7	*
1976	6.9	8.4			

Note: Rates of natural population increase per 1,000 population. Canadian rates from Statistics Canada. *Rates were not available. Non-residents are excluded.

FIGURE 4

TRENDS OF NATURAL POPULATION INCREASES

BRITISH COLUMBIA AND CANADA, 1950–2002

Note: Rates for Canada after 1999 are not available.

HIGHLIGHTS TO TABLE 2/FIGURE 4

- In 2002, the 39,893 births and 29,686 deaths in the province produced a rate of natural population growth of 2.7 per 1,000 population. Immigration and emigration are not included in natural population growth rates.
- The pattern of natural population growth rates over the last five decades follows trends seen in the provincial birth rates. After high rates in the 1950s, natural population growth rates decreased rapidly in the 1960s as birth and death rates both declined. Since the mid 1980s, the small but steady decline in the natural population growth rate resulted from declining birth rates and relatively stable death rates. The 2002 natural population growth rate for B.C. was the lowest since 1950, and the fifth year in a row with a rate below 4.0 per 1,000 population.
- Except for four years from 1981 to 1984, the B.C. rate of natural population growth has been consistently below the Canadian rate each year.

TABLE 3

TRENDS OF TOTAL FERTILITY RATES

BRITISH COLUMBIA, 1950–2002

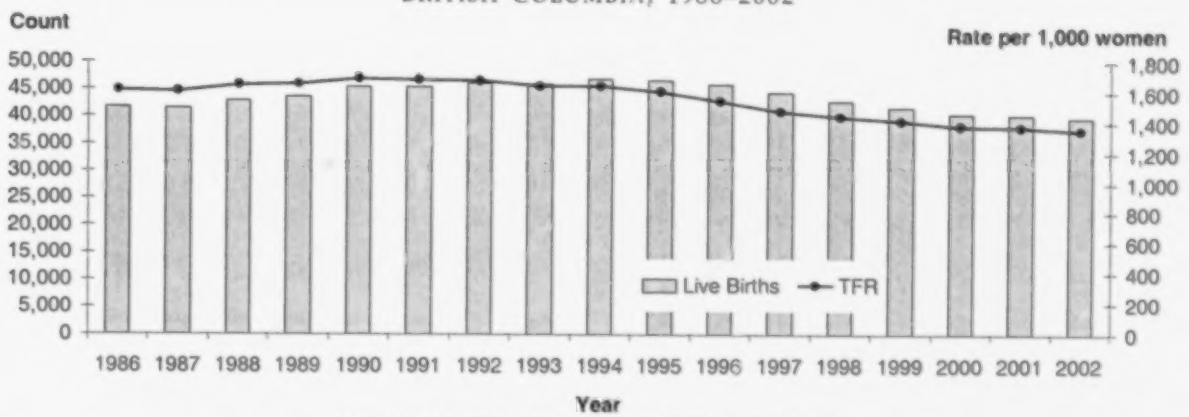
Year	Total Fertility Rate	Live Births	Year	Total Fertility Rate	Live Births
1950	3,074	27,116	1977	1,636	36,691
1951	3,201	28,077	1978	1,620	37,231
1952	3,327	29,827	1979	1,721	38,432
1953	3,542	31,746	1980	1,716	40,104
1954	3,656	32,946	1981	1,718	41,679
1955	3,748	34,138	1982	1,749	42,942
1956	3,875	36,241	1983	1,751	43,047
1957	3,921	38,744	1984	1,781	44,040
1958	3,900	39,577	1985	1,642	42,989
1959	3,958	39,971	1986	1,602	41,845
1960	3,949	40,116	1987	1,598	41,655
1961	3,785	38,591	1988	1,636	42,913
1962	3,709	38,128	1989	1,638	43,585
1963	3,564	37,478	1990	1,673	45,333
1964	3,284	35,897	1991	1,653	45,308
1965	2,710	33,669	1992	1,642	46,048
1966	2,442	32,502	1993	1,636	45,931
1967	2,307	32,899	1994	1,638	46,850
1968	2,228	33,687	1995	1,604	46,702
1969	2,223	35,383	1996	1,540	45,955
1970	2,185	36,861	1997	1,472	44,399
1971	1,994	34,852	1998	1,436	42,863
1972	1,890	34,563	1999	1,408	41,746
1973	1,751	34,352	2000	1,374	40,491
1974	1,735	35,450	2001	1,370	40,392
1975	1,682	36,281	2002	1,351	39,893
1976	1,618	35,848			

Note: Total Fertility Rate – Sum of age-specific fertility rates multiplied by the number of years in each age group (see Glossary for definition). B.C. rates per 1,000 women age 15 to 44. Non-residents are excluded.

FIGURE 5.1

TOTAL FERTILITY RATES & NUMBER OF LIVE BIRTHS

BRITISH COLUMBIA, 1986–2002



HIGHLIGHTS TO TABLE 3/FIGURE 5.1

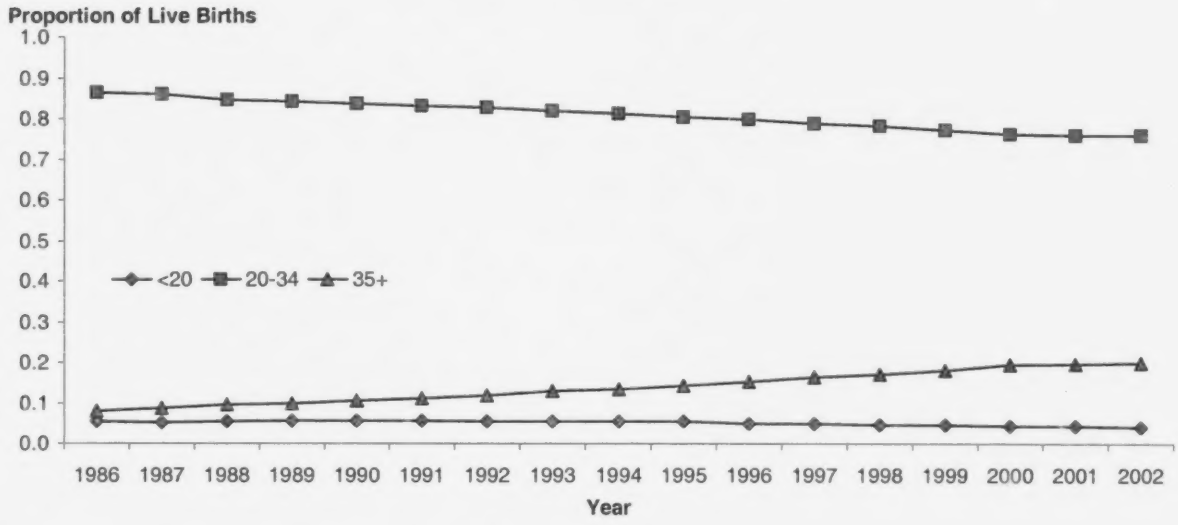
The total fertility rate (TFR) is the number of births 1,000 women can expect over their childbearing years, based on current age specific fertility.

- The total fertility rate in British Columbia in 2002 was 1,351, down slightly from 1,370 in 2001 and the lowest level since at least 1950.
- The average woman in 2002 would have 1.4 live births in her lifetime, based on the TFR.
- The total fertility rate is on a statistically significant (at the 95% level) long term downward trend.
- There were 39,893 live births in British Columbia in 2002, down from 40, 391 in 2001. 2002 marked the first time since 1979 that there were fewer than 40,000 live births in the province in a given year.

FIGURE 5.2

BIRTH TRENDS LIVE BIRTHS BY AGE OF MOTHER

BRITISH COLUMBIA, 1950–2002



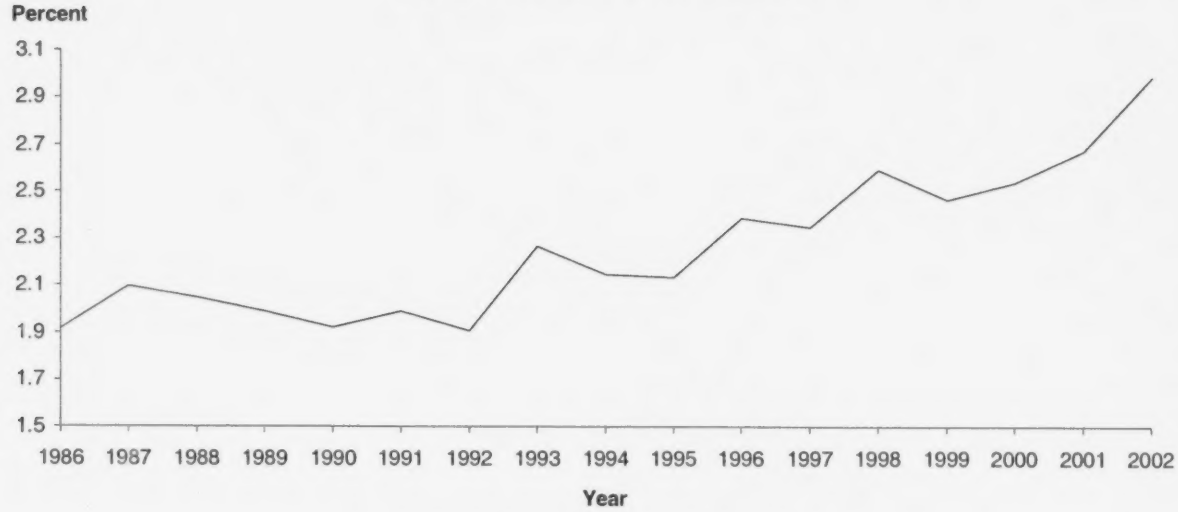
HIGHLIGHTS TO FIGURE 5.2

- Mothers in BC are getting older. Mothers over the age of 35 (elderly gravida) comprised 20.1% of all mothers in 2002, the highest percentage ever for this group. In contrast teen mothers made up 4.0% of all mothers, the lowest percentage ever for this group.
- The long term trend is for a higher percentage of elderly gravidas and a lower percentage for teen mothers. Both trends are statistically significant at the 95% level.

FIGURE 5.3

MULTIPLE BIRTHS AS A PERCENTAGE OF LIVE BIRTHS

BRITISH COLUMBIA, 1986–2002



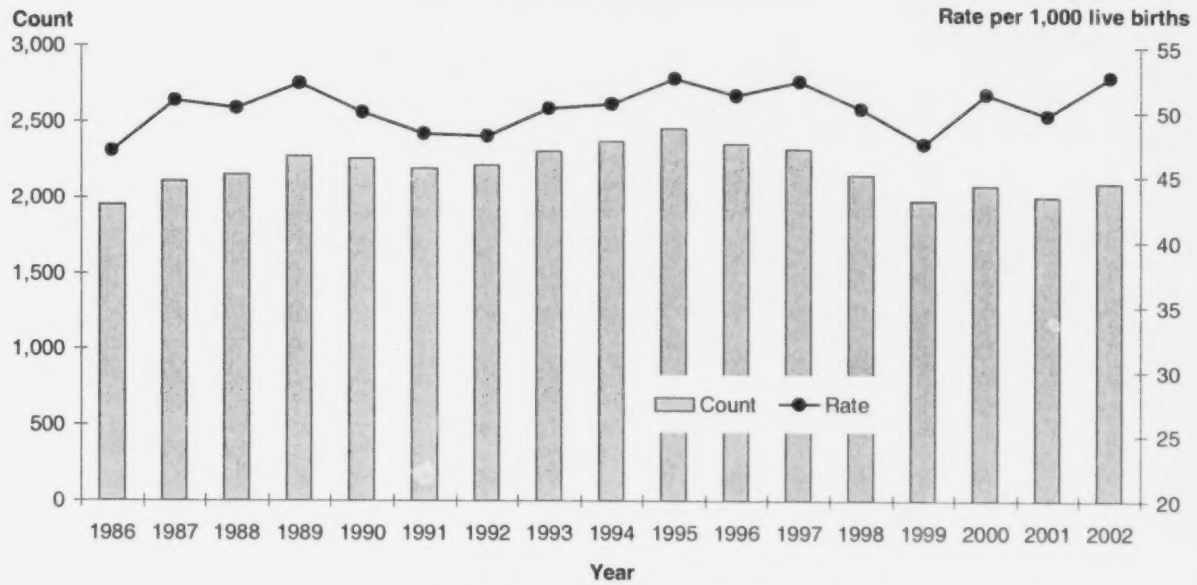
HIGHLIGHTS TO FIGURE 5.3

- Multiple births as a percentage of total live births have increased from 1.9 in 1986 to 3.0 in 2002. The upward trend is statistically significant at the 95% level.

FIGURE 5.4

TRENDS IN LOW BIRTH WEIGHT LIVE BIRTHS

BRITISH COLUMBIA, 1986–2002



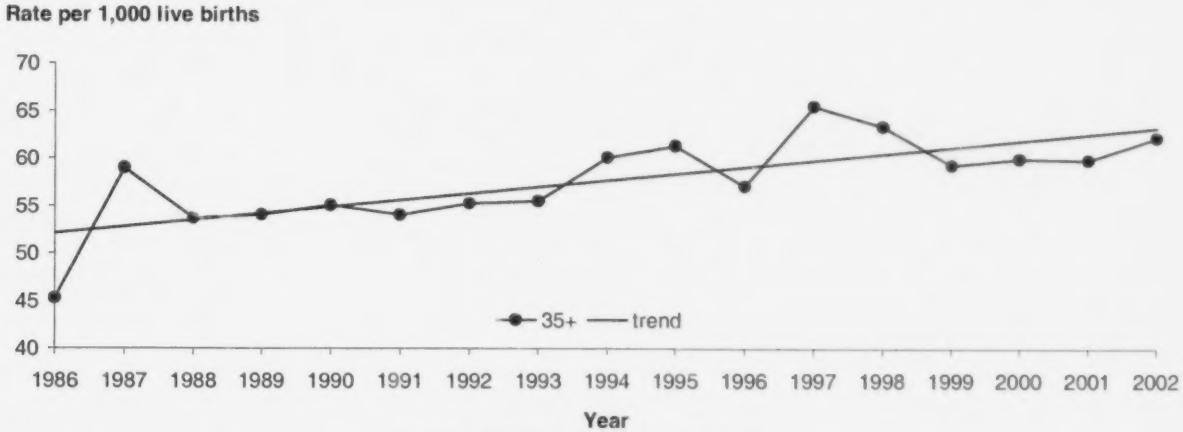
HIGHLIGHTS TO FIGURE 5.4

- There were 2,103 babies born weighing less than 2,500 grams in 2002 compared to 2,010 in 2001. The rate increased to 52.72 per 1,000 live births in 2002 from 49.76 per 1,000 live births in 2001. The change is not statistically significant at the 95% level.
- There is no statistically significant trend in the rate of low birth weight babies over the period 1986-2002.

FIGURE 5.5

TRENDS IN LOW BIRTH WEIGHT LIVE BIRTHS FOR MOTHER AGED 35+

BRITISH COLUMBIA, 1986–2002



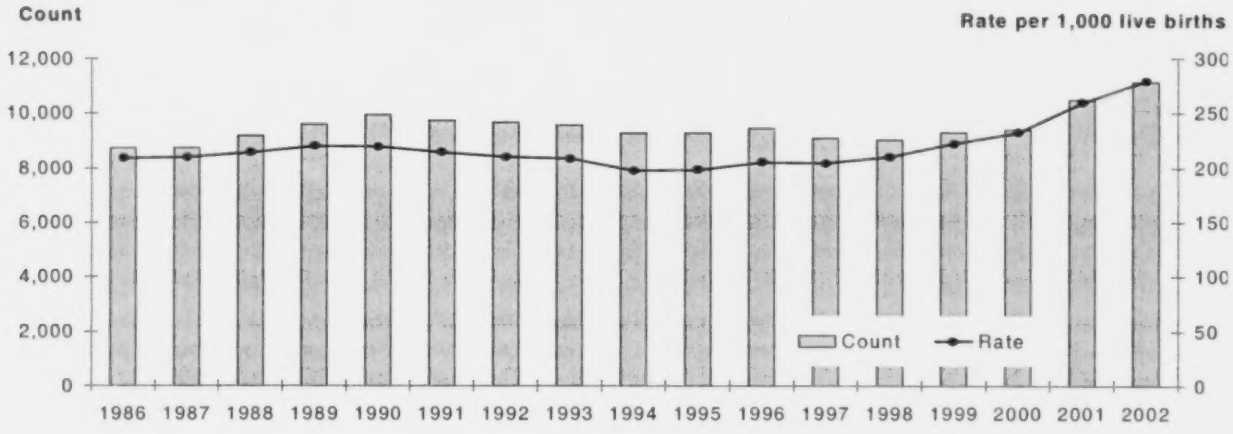
HIGHLIGHTS TO FIGURE 5.5

- In 2002 there were 62.27 low birth weight babies born for every 1,000 live births by an older mother, up slightly from 59.85 in 2001.
- There is a statistically significant (95 % significance level) upward trend in the rate of low birth weight babies born to older mothers. Low birth weight live birth rates for teenage mothers and those between 20 and 35 years old show no statistically significant trend.

FIGURE 5.6

BIRTH TRENDS IN CESAREAN SECTIONS

BRITISH COLUMBIA, 1986–2002



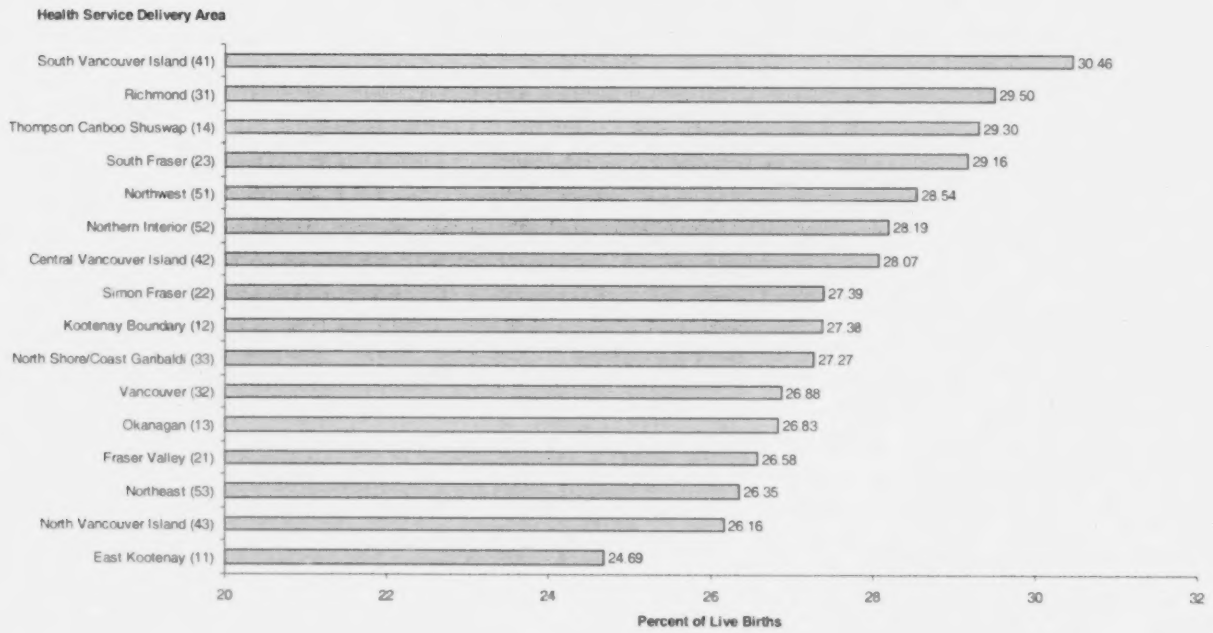
HIGHLIGHTS TO FIGURE 5.6

- There were 11,144 live births by cesarian section in 2002, up from 10,503 in 2001. The rate of c-sections increased as well, from 260.03 per 1,000 live births in 2001 to 279.35 per 1,000 live births to 2002.
- The upward trend in the rate of c-sections since 1986 is statistically significant and the trend appears to be accelerating in recent years.

FIGURE 5.7

CESAREAN SECTIONS BY HEALTH SERVICE DELIVERY AREA

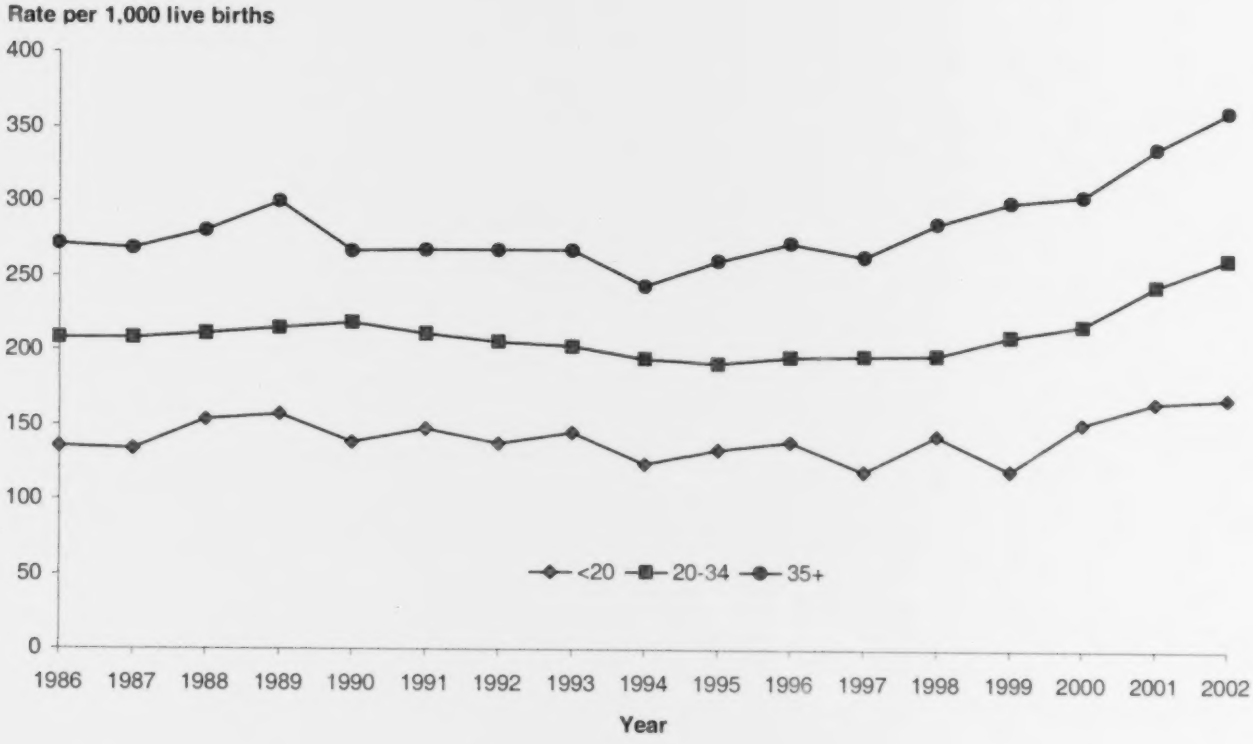
BRITISH COLUMBIA, 2002



HIGHLIGHTS TO FIGURE 5.7

- The proportion of c-section deliveries varies considerably across the province, ranging from a low of 24.69 per cent of live births in BC for mothers whose usual residence is East Kootenay to a high of 30.46 per cent of live births for mothers whose usual residence is in South Vancouver Island.

FIGURE 5.8
CESAREAN SECTIONS BY MATERNAL AGE
BRITISH COLUMBIA, 1986–2002



HIGHLIGHTS TO FIGURE 5.8

- Province wide, the rate of c-section births is much higher for mothers over 35 (362.06 per 1,000 live births) than for other age groups (169.15 per 1,000 and 263.24 per 1,000 live births for the <20 and 20-34 mothers respectively). The rate for teen mothers is the lowest of the three categories considered.
- The trend is statistically significant for older mothers only. All three ages, however, show some evidence that the rate is accelerating in recent years.

TABLE 4
TRENDS OF INFANT MORTALITY
BRITISH COLUMBIA AND CANADA, 1965–2002

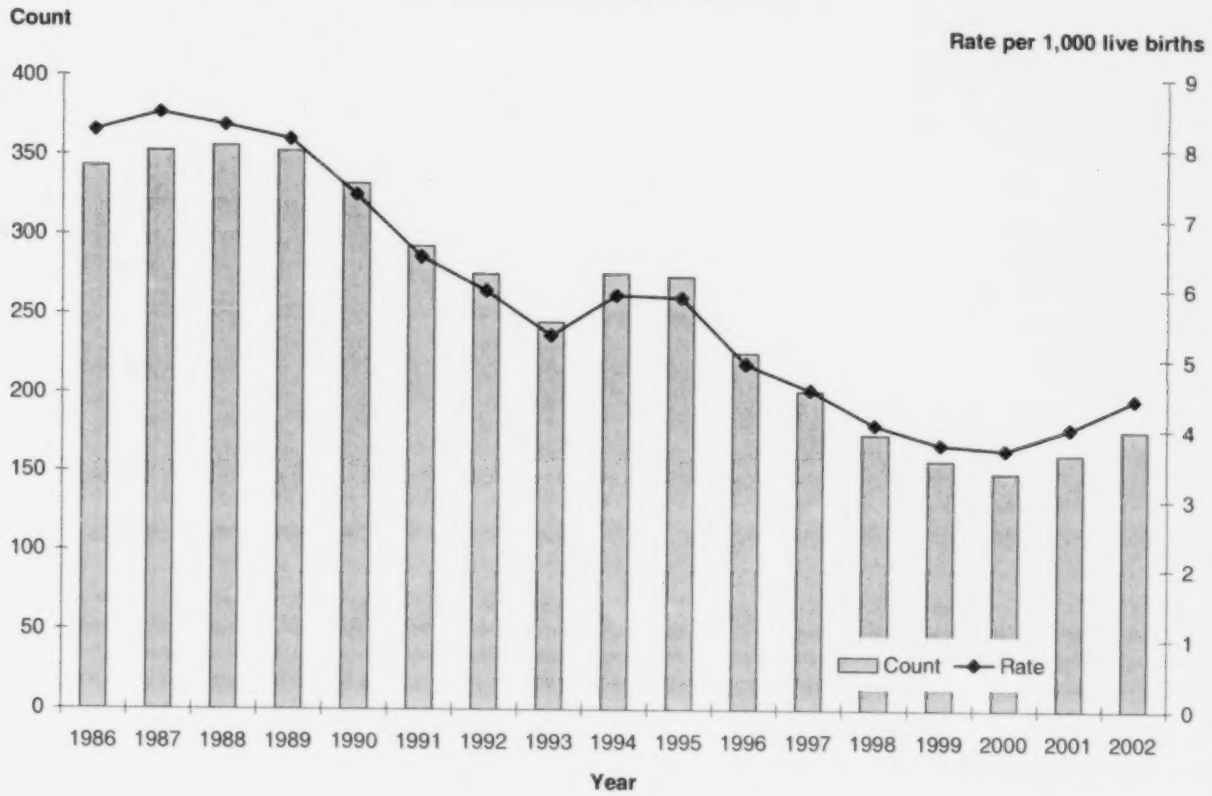
Year	British Columbia Age at Death (in Days)									Canada
	0–6 Days		0–27 Days		28–364 Days		N.S.	Total		
	Number	Rate	Number	Rate	Number	Rate		Number	Rate	Rate
1965	415	12.3	453	13.5	227	6.7	3	683	20.3	24.0
1966	435	13.4	494	15.2	263	8.1	4	761	23.4	23.1
1967	429	13.0	470	14.3	218	6.6	1	689	20.9	22.0
1968	375	11.1	438	13.0	214	6.4	4	656	19.5	21.0
1969	329	9.3	374	10.6	199	5.6	–	573	16.2	19.0
1970	369	10.0	416	11.3	193	5.2	2	611	16.6	19.0
1971	409	11.7	450	12.9	185	5.3	–	635	18.2	17.5
1972	322	9.3	373	10.8	195	5.6	1	569	16.5	17.0
1973	317	9.2	363	10.6	185	5.4	3	551	16.0	16.0
1974	310	8.7	348	9.8	196	5.5	2	546	15.4	15.0
1975	278	7.7	321	8.8	169	4.7	1	491	13.5	14.3
1976	292	8.1	324	9.0	152	4.2	2	478	13.3	13.5
1977	246	6.7	276	7.5	200	5.5	–	476	13.0	12.4
1978	245	6.6	286	7.7	178	4.8	–	464	12.5	12.0
1979	196	5.1	239	6.2	167	4.3	–	406	10.6	10.9
1980	188	4.7	235	5.9	186	4.6	–	421	10.5	10.4
1981	232	5.6	259	6.2	140	3.4	3	402	9.6	9.6
1982	217	5.1	251	5.8	150	3.5	–	401	9.3	9.1
1983	193	4.5	212	4.9	145	3.4	2	359	8.3	8.5
1984	184	4.2	205	4.6	150	3.4	1	356	8.1	8.1
1985	180	4.2	198	4.6	133	3.1	–	331	7.7	8.0
1986	166	4.0	196	4.7	147	3.5	–	343	8.2	7.9
1987	162	3.9	197	4.7	156	3.7	–	353	8.5	7.3
1988	190	4.4	219	5.1	137	3.2	–	356	8.3	7.2
1989	186	4.3	215	4.9	138	3.2	–	353	8.1	7.3
1990	187	4.1	225	5.0	106	2.3	–	331	7.3	6.8
1991	137	3.0	161	3.6	126	2.8	–	287	6.3	6.4
1992	152	3.3	174	3.8	101	2.2	–	275	6.0	6.1
1993	122	2.7	139	3.0	111	2.4	–	250	5.4	6.3
1994	176	3.8	198	4.2	90	1.9	–	288	6.1	6.3
1995	158	3.4	181	3.9	94	2.0	–	275	5.9	6.1
1996	133	2.9	160	3.5	68	1.5	–	228	5.0	5.6
1997	125	2.8	146	3.3	56	1.3	–	202	4.5	5.5
1998	94	2.2	114	2.7	60	1.4	–	174	4.1	5.3
1999	84	2.0	107	2.6	51	1.2	–	158	3.8	5.3
2000	83	2.0	105	2.6	45	1.1	–	150	3.7	*
2001	102	2.5	126	3.1	36	0.9	–	162	4.0	*
2002	96	2.4	123	3.1	54	1.4	–	177	4.4	*

Note: Rates per 1,000 live births in the specified year.
N.S. – Not stated.
Above information includes late registrations and amendments.
Canadian rates from Statistics Canada.
*Rates were not available.
Non-residents are excluded.

FIGURE 6.1

TRENDS OF INFANT MORTALITY

BRITISH COLUMBIA, 1986–2002



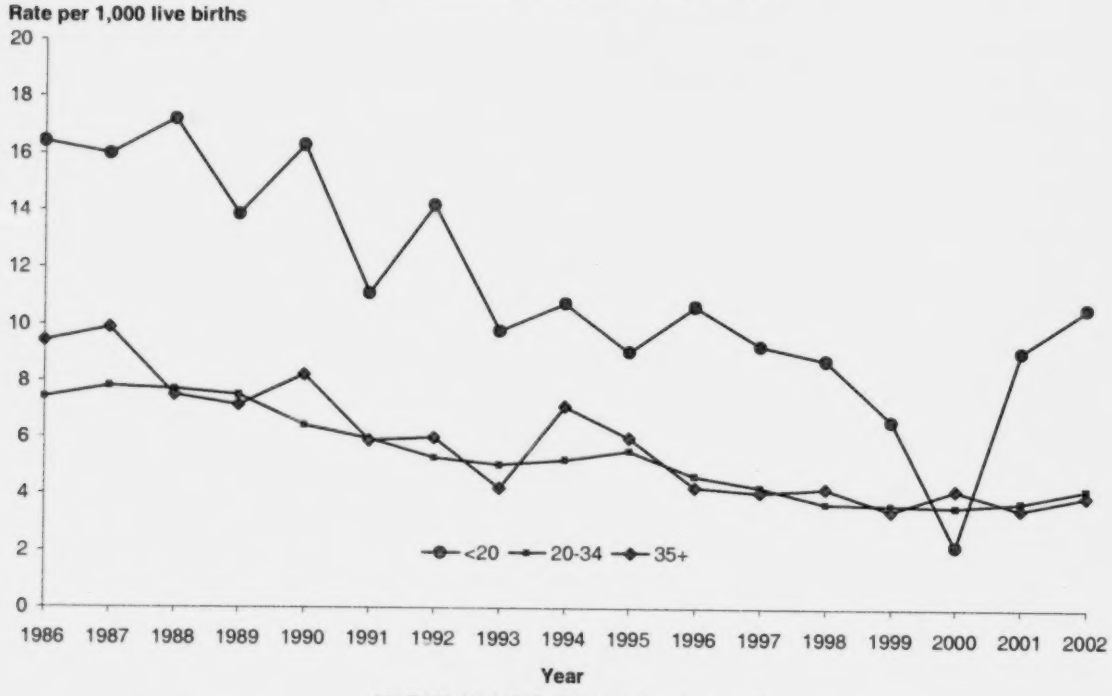
HIGHLIGHTS TO TABLE 4/FIGURE 6.1

- There were 177 infant deaths (deaths to children less than 1 year of age) in BC in 2002. This is up 15 deaths from 162 in 2001. The rate rose from 4.0 per 1,000 live births in 2001 to 4.4 per 1,000 live births in 2002. The year over year increase in the rate is not statistically significant at the 95% level.
- The rate of infant deaths in the province has been on a statistically significant downward trend.
- Infant mortality rates in B.C. have fallen dramatically to almost one fifth of the rates seen in 1965. Decreases in early neonatal mortality (age at death less than seven days) and neonatal mortality (age at death less than 28 days) have been major contributors to the overall decline in infant mortality rates over this time period. In Canada infant mortality rates have also fallen to approximately one fifth of the rates seen in 1965.
- Since 1991, the B.C. infant mortality rate has been consistently below the Canadian rate.

FIGURE 6.2

INFANT MORTALITY BY AGE OF MOTHER

BRITISH COLUMBIA, 1986–2002



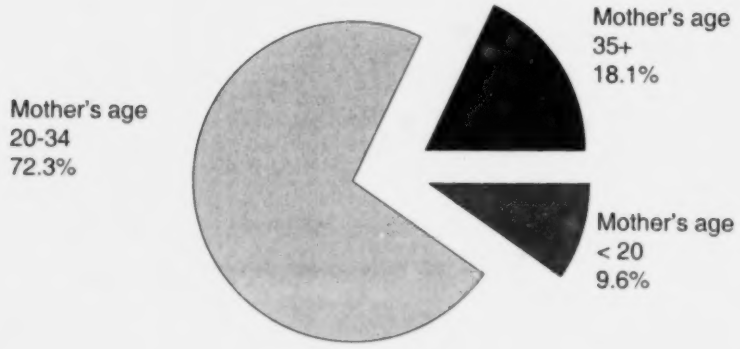
HIGHLIGHTS TO FIGURE 6.2

- Teen mothers had the highest rate of infant deaths in 2002 and for most of the last 17 years.
- All three age groups(<20, 20-34 and 35+) are experiencing a statistically significant downward trend in infant deaths.

FIGURE 6.3

PERCENTAGE OF INFANT MORTALITY BY AGE OF MOTHER

BRITISH COLUMBIA, 2002



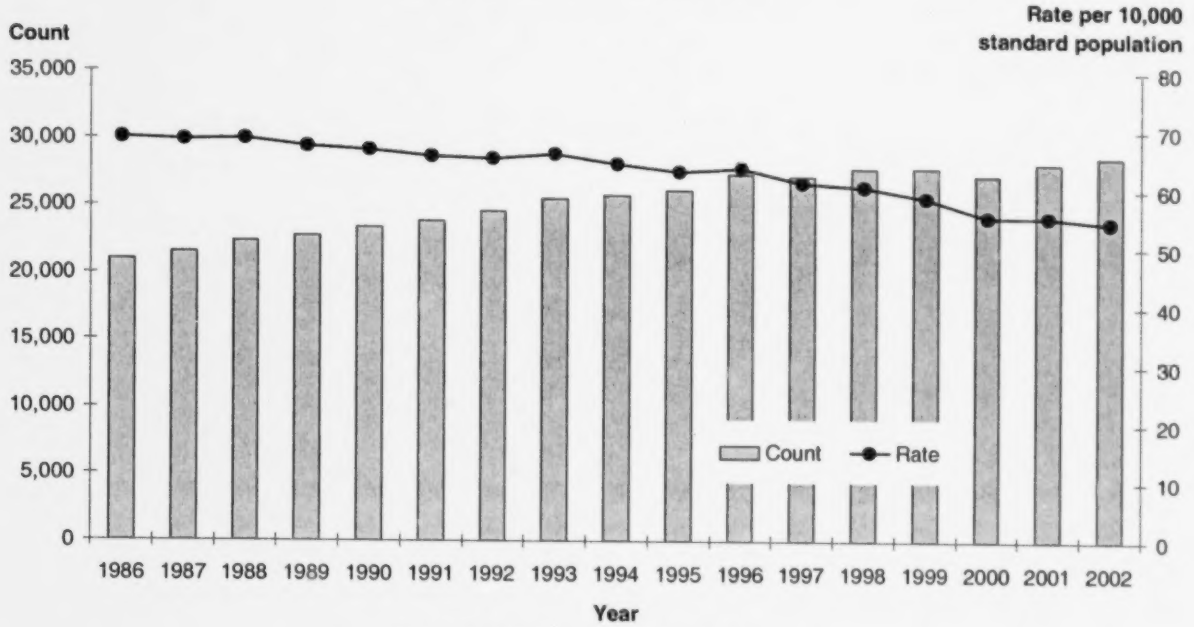
HIGHLIGHTS TO FIGURE 6.3

- Despite the relatively low rate of infant deaths among mothers aged 20-34, this group experienced 72.3% of the infant deaths in 2002 because they are by far the largest age category of mother.
- Despite having the highest rate of infant death, teen mothers experienced only 9.6% of the infant deaths in the province because of the low number of teen mothers.

FIGURE 6.4

DEATHS AND DEATH RATES, ALL CAUSES OF DEATH

BRITISH COLUMBIA, 1986–2002



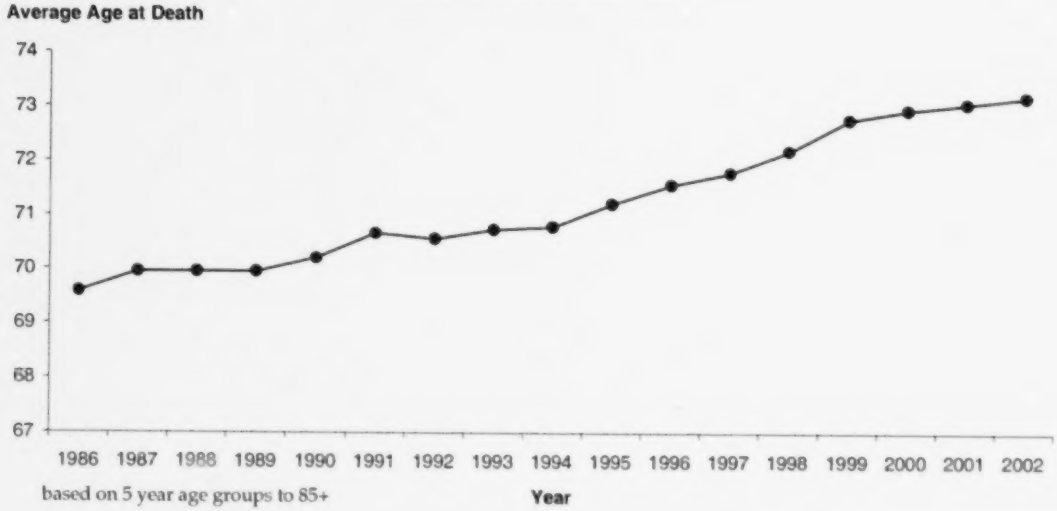
HIGHLIGHTS TO FIGURE 6.4

- There were 28,686 deaths in BC in 2002, up from 28,226 in 2001. Despite the increase in the number of deaths, an aging population allowed the Age Standardized Mortality Rate (ASMR) for all deaths to fall from 55.30 in 2001 to 54.36 in 2002.
- The ASMR in BC has been on a statistically significant downward trend since 1986 and is currently at an historic low.

FIGURE 6.5

AVERAGE AGE AT DEATH

BRITISH COLUMBIA, 2002



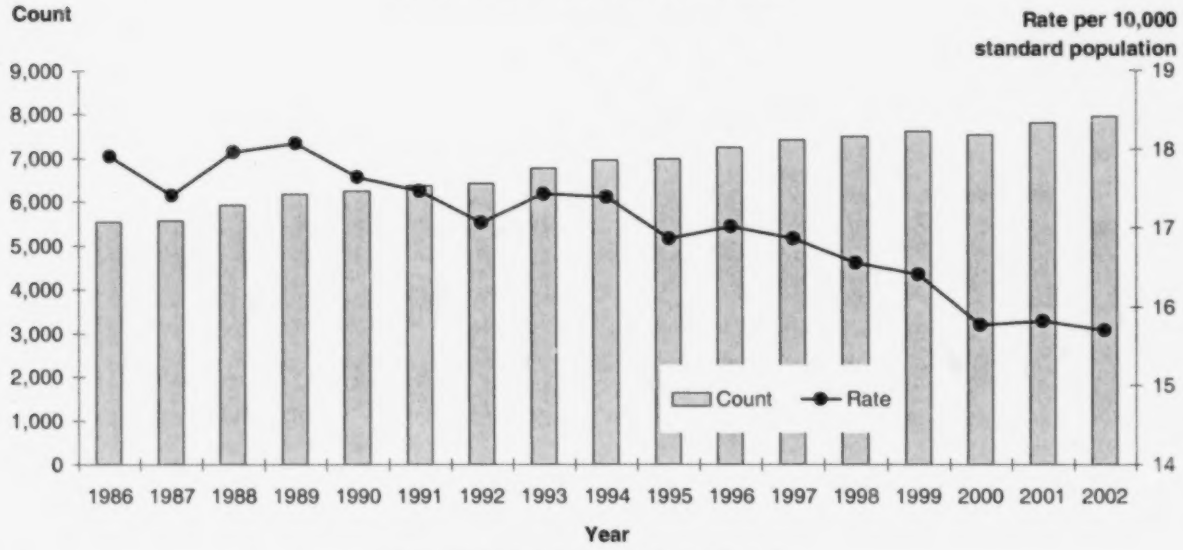
HIGHLIGHTS TO FIGURE 6.5

- The statistically significant trend in average age at death (not life-expectancy) has seen the average age increase from 69.6 years in 1986 to 73.2 years in 2002.

FIGURE 6.6

DEATHS AND DEATH RATES, MALIGNANT NEOPLASMS (CANCER)

BRITISH COLUMBIA, 1986–2002



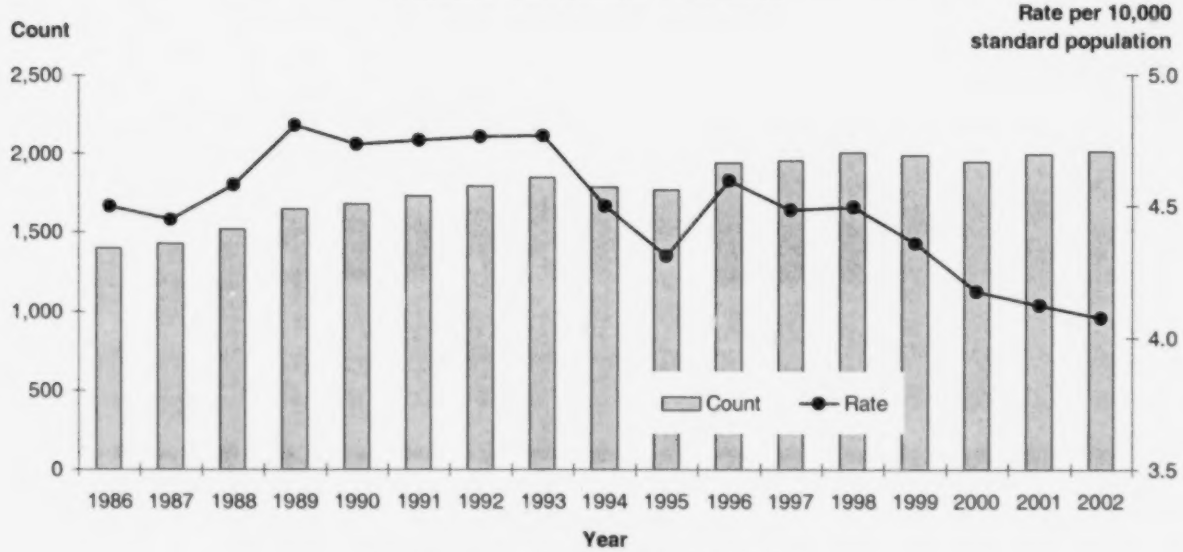
HIGHLIGHTS TO FIGURE 6.6

- The number of people in BC who died from cancer rose to 7,940 in 2002 from 7,787 in 2001. The ASMR for cancer fell from 15.83 per 10,000 to 15.70, driven by an aging and growing population in the province.
- The downward trend in the ASMR for cancer is statistically significant at the 95% level.

FIGURE 6.7

DEATHS AND DEATH RATES, LUNG CANCER

BRITISH COLUMBIA, 1986-2002



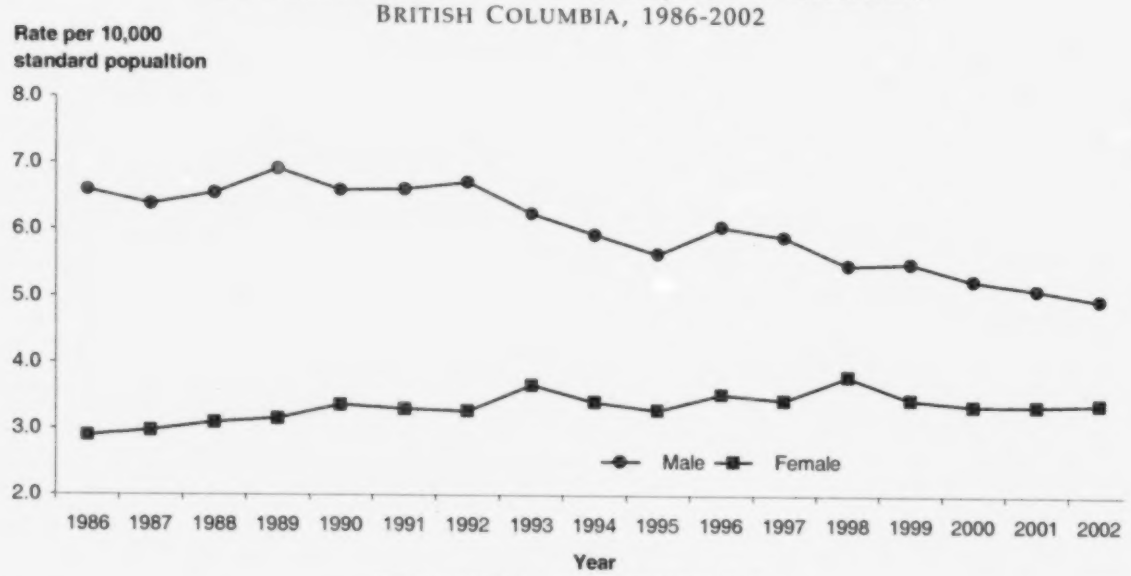
HIGHLIGHTS TO FIGURE 6.7

- Total deaths from lung cancer crept up in 2002 to a level of 2,013, up 21 deaths from the 1,992 deaths in 2001. The ASMR dipped to 4.07 per 10,000 people from 4.12 per 10,000 people in 2001.
- The ASMR for lung cancer deaths in BC residents is on a statistically significant downward trend after being level until the early 1990s.

FIGURE 6.8

DEATH RATES BY GENDER, LUNG CANCER

BRITISH COLUMBIA, 1986-2002



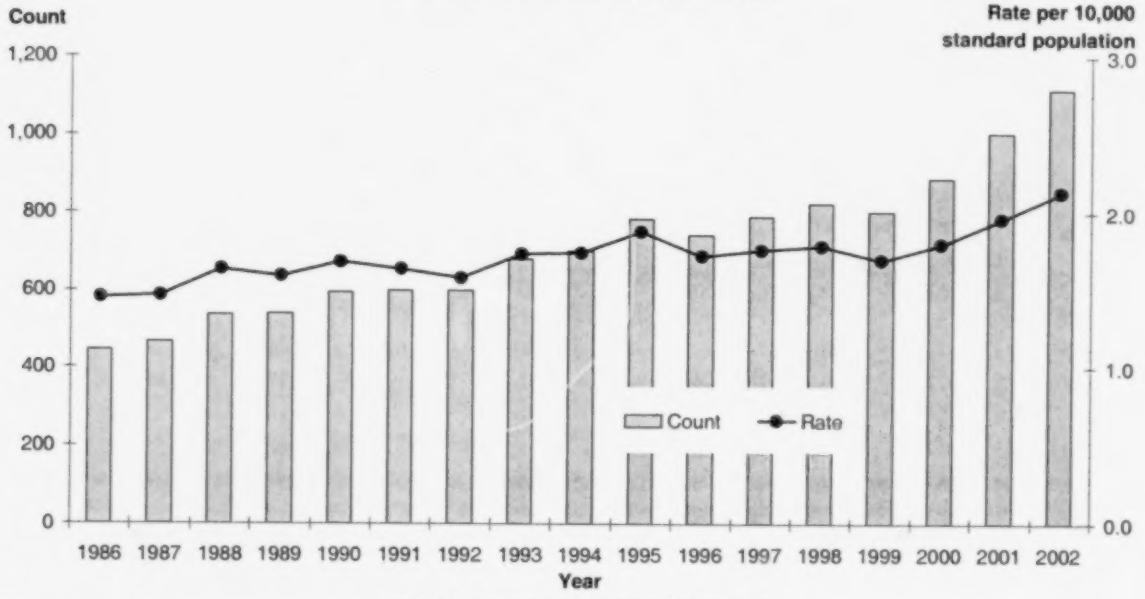
HIGHLIGHTS TO FIGURE 6.8

- The lung cancer death rate of 4.97 per 10,000 standard population is the lowest for males since at least 1986.
- The female rate has fluctuated around 3.4 per 10,000 for the last 10 years.

FIGURE 6.9

DEATHS AND DEATH RATES, ENDOCRINE, NUTRITIONAL & METABOLIC DISEASES

BRITISH COLUMBIA, 1986-2002



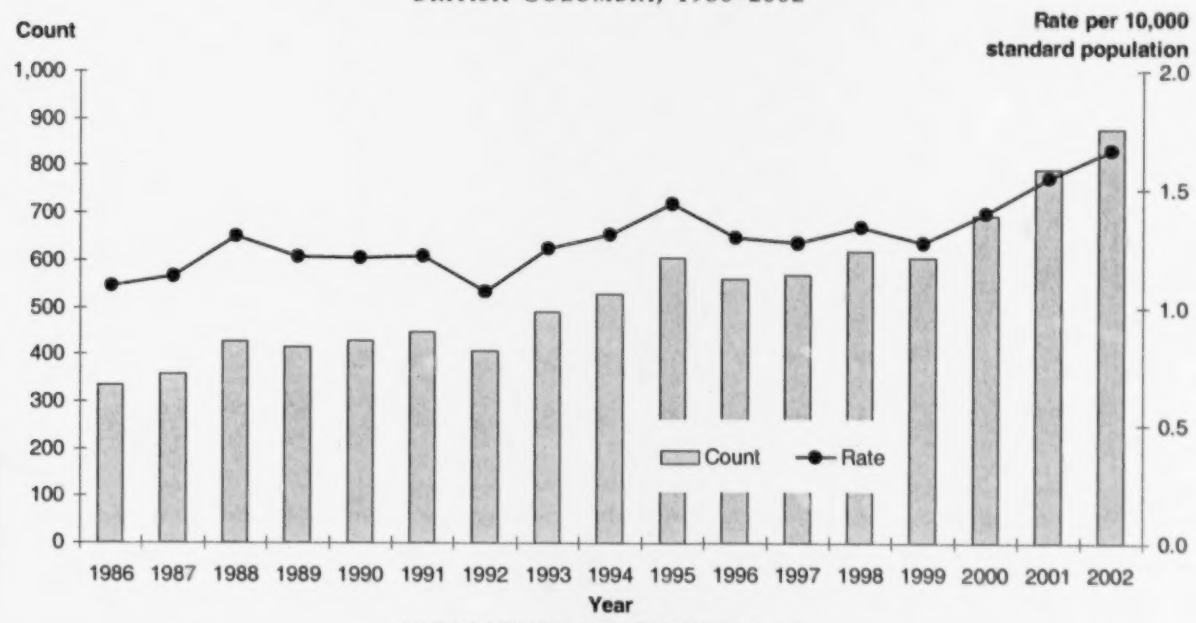
HIGHLIGHTS TO FIGURE 6.9

- There were 1,116 deaths from endocrine, nutritional and metabolic disorders in BC in 2002. This was an increase of 110 from the 1,006 in 2001. The ASMR for endocrine, nutritional and metabolic disease rose from 1.96 per 10,000 to 2.13 per 10,000.
- Endocrine, nutritional and metabolic disease rates are on a statistically significant upward trend.

FIGURE 6.10

DEATHS AND DEATH RATES, DIABETES

BRITISH COLUMBIA, 1986–2002



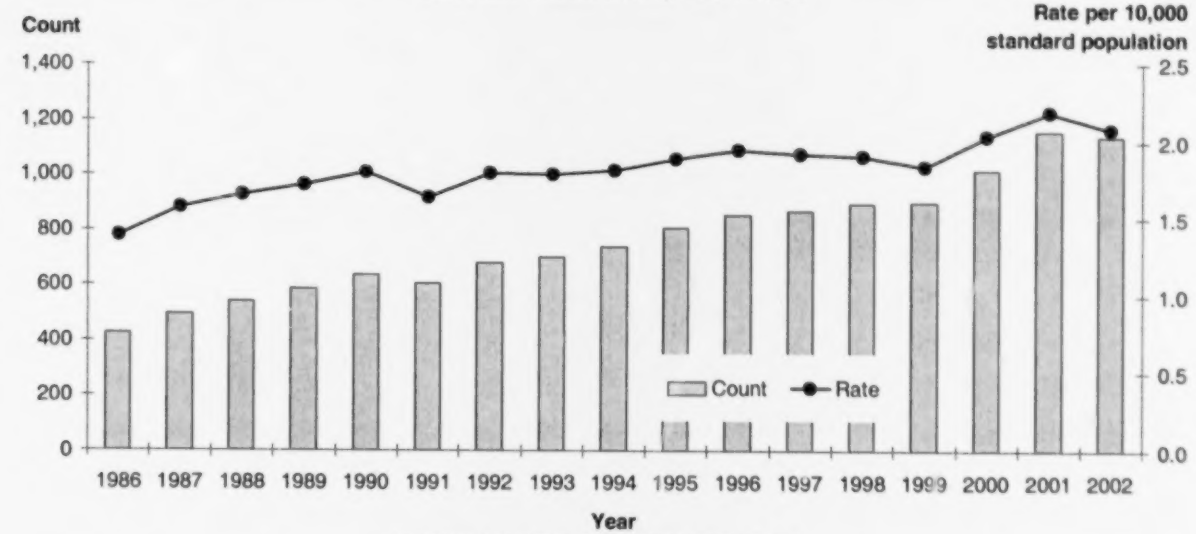
HIGHLIGHTS TO FIGURE 6.10

- In 2002, 78.6 % of the endocrine, nutritional and metabolic disease deaths were due to diabetes. There were 877 deaths from diabetes in 2002 up from 791 in 2001. The ASMR for diabetes increased as well, from 1.55 per 10,000 in 2001 to 1.66 per 10,000 in 2002.
- The long term upward trend in the ASMR from diabetes is statistically significant at the 95% level.

FIGURE 6.11

DEATHS AND DEATH RATES, NERVOUS SYSTEM DISEASES

BRITISH COLUMBIA, 1986-2002



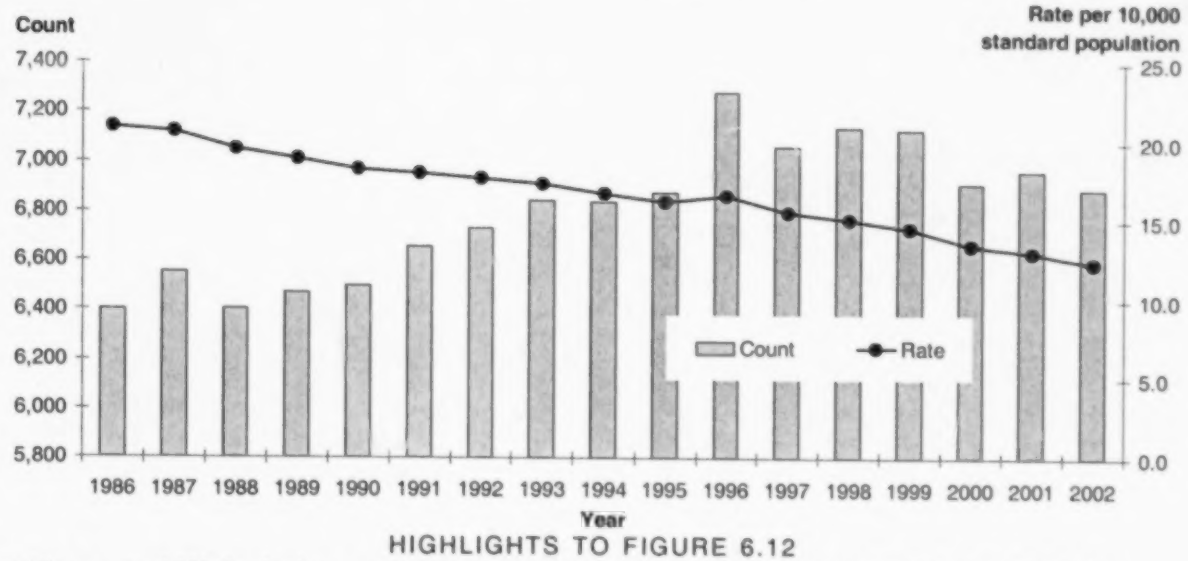
HIGHLIGHTS TO FIGURE 6.11

- The number of deaths from diseases of the nervous system fell slightly in 2002, from 1,157 in 2001 to 1,137 in 2002. The ASMR likewise fell from 2.19 per 10,000 in 2001 to 2.08 per 10,000 in 2002.
- Despite the current drop in the ASMR, there is a statistically significant upward trend in the ASMR of diseases of the nervous system.

FIGURE 6.12

DEATHS AND DEATH RATES, CARDIOVASCULAR DISEASES

BRITISH COLUMBIA, 1986-2002



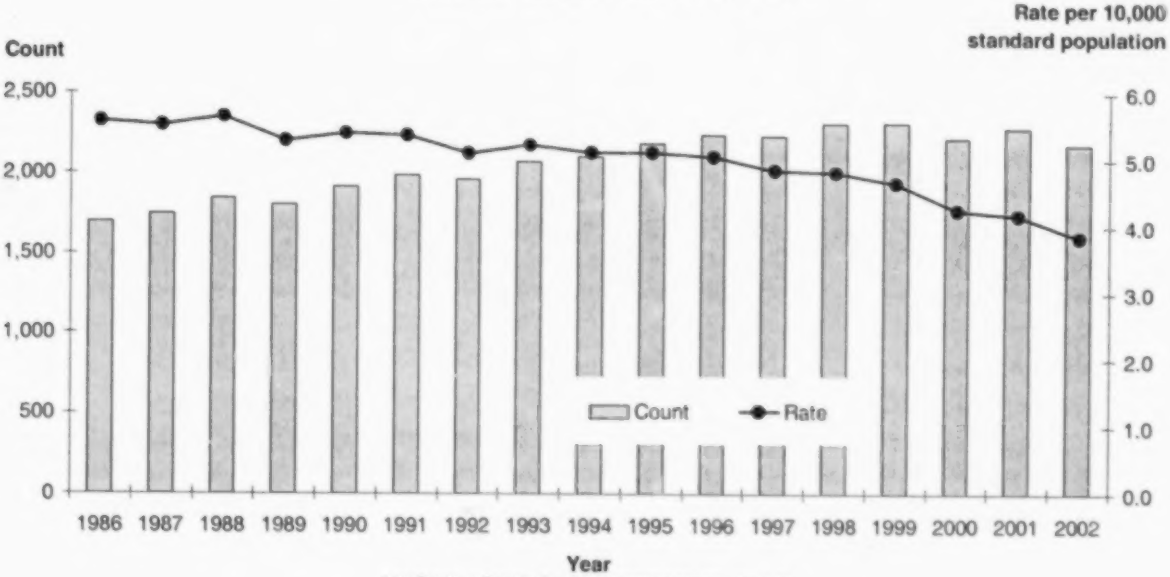
HIGHLIGHTS TO FIGURE 6.12

- There were 6,893 deaths from cardiovascular disease in 2002, down from 6,962 in 2001. The ASMR for cardiovascular disease also dipped from 13.06 per 10,000 to 12.40 per 10,000.
- The rate of deaths from cardiovascular disease continues a statistically significant downward trend, which has seen the ASMR drop from 20.92 per 10,000 in 1986 to 12.40 per 10,000.

FIGURE 6.13

DEATHS AND DEATH RATES, CEREBROVASCULAR DISEASES

BRITISH COLUMBIA, 1986-2002



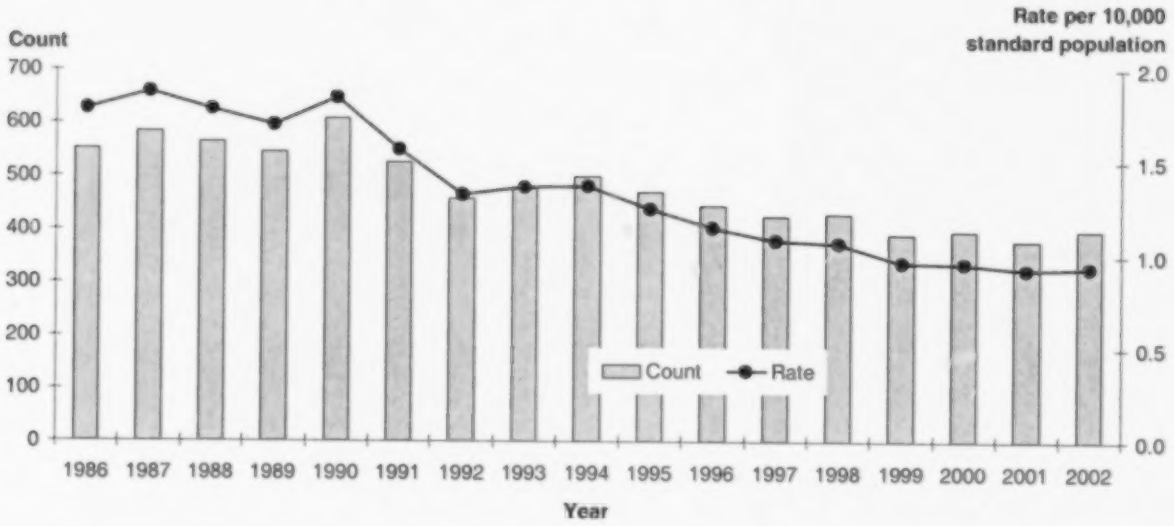
HIGHLIGHTS TO FIGURE 6.13

- There were 2,183 deaths from cerebrovascular disease in 2002, down from 2,284 in 2001. The ASMR for cerebrovascular disease fell to 3.85 deaths per 10,000 in 2002 from 4.17 per 10,000 in 2001.
- There is a statistically significant long run downward trend in the ASMR for cerebrovascular disease.

FIGURE 6.14

DEATHS AND DEATH RATES, MOTOR VEHICLE ACCIDENTS

BRITISH COLUMBIA, 1986–2002



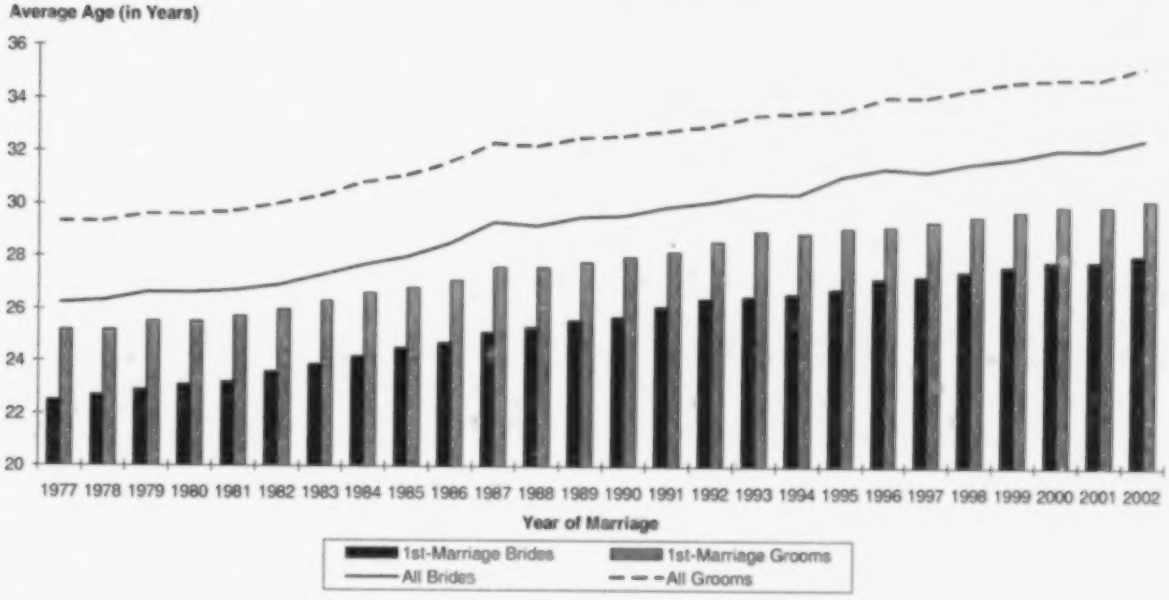
HIGHLIGHTS TO FIGURE 6.14

- There were 399 deaths due to motor vehicle accidents (MVA) in BC in 2002. This was an increase of 21 deaths from the 2001 level of 378. The ASMR for MVAs rose slightly to 0.94 per 10,000 in 2002 from 0.92 in 2001.
- There is a statistically significant long term downward trend in MVA death rates. The ASMR has dropped from 1.79 per 10,000 in 1986 to 0.94 per 10,000 in 2002.

TABLE 5
TRENDS IN AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1977–2002

Year of Marriage	Average Age (in Years)			
	First Marriage		All Marriages	
	Bride	Groom	Bride	Groom
1977	22.5	25.2	26.2	29.3
1978	22.7	25.2	26.3	29.3
1979	22.9	25.5	26.6	29.6
1980	23.1	25.5	26.6	29.6
1981	23.2	25.7	26.7	29.7
1982	23.6	26.0	26.9	30.0
1983	23.9	26.3	27.3	30.3
1984	24.2	26.6	27.7	30.8
1985	24.5	26.8	28.0	31.1
1986	24.7	27.1	28.5	31.6
1987	25.1	27.6	29.3	32.3
1988	25.3	27.6	29.2	32.2
1989	25.6	27.8	29.5	32.5
1990	25.7	28.0	29.6	32.6
1991	26.1	28.2	29.9	32.8
1992	26.4	28.6	30.1	33.0
1993	26.5	29.0	30.4	33.4
1994	26.6	28.9	30.4	33.5
1995	26.8	29.1	31.1	33.6
1996	27.2	29.2	31.4	34.1
1997	27.3	29.4	31.3	34.1
1998	27.5	29.6	31.6	34.4
1999	27.7	29.8	31.8	34.7
2000	27.9	30.0	32.1	34.8
2001	27.9	30.1	32.2	35.0
2002	28.1	30.2	32.5	35.3

FIGURE 7
TRENDS IN AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1977–2002



HIGHLIGHTS TO TABLE 5/FIGURE 7

- The average age of first marriage brides was 28.1, while first marriage grooms were, on average, 30.2 years old.
- In recent decades, there has been a steady increase in the average age of first marriages. First marriage brides in 2002 were 5.6 years older than first marriage brides in 1977, while first marriage grooms were 5.0 years older than first marriage grooms in 1977.
- The average ages of brides and grooms, for first and later marriages combined, have climbed steadily since 1977. In 2002, the average age of all brides was 32.5 years old, while grooms were 35.3 years old.

TABLE 6

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

BRITISH COLUMBIA, 2002

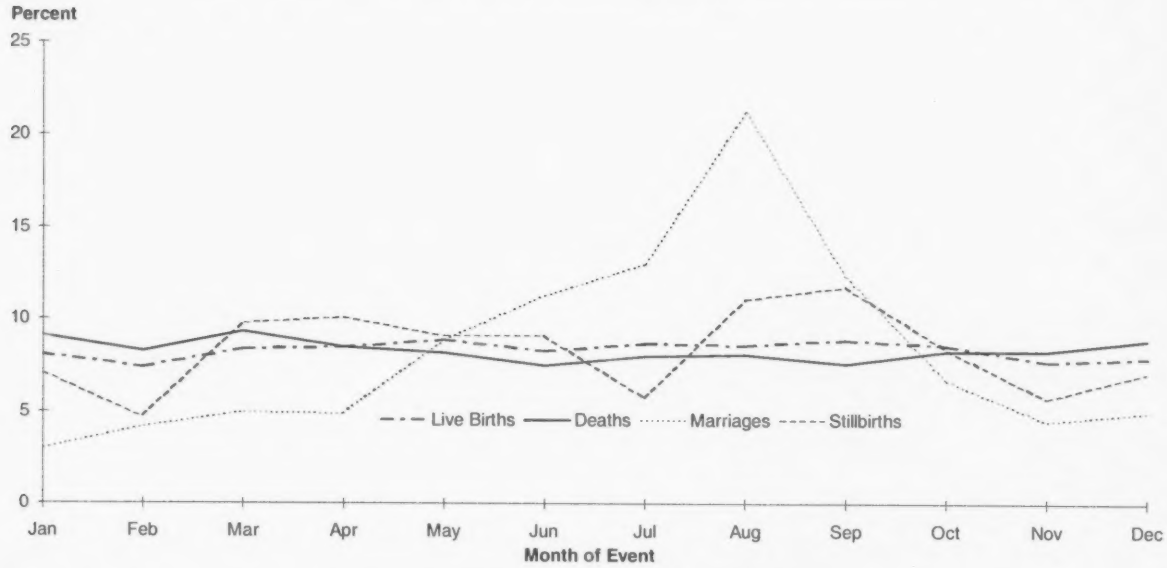
Month	Live Births		Deaths		Marriages		Stillbirths	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
January	3,243	8.1	2,599	9.1	640	3.0	21	7.1
February	2,967	7.4	2,370	8.3	889	4.2	14	4.7
March	3,352	8.4	2,659	9.3	1,056	5.0	29	9.8
April	3,403	8.5	2,428	8.5	1,051	4.9	30	10.1
May	3,554	8.9	2,355	8.2	1,900	8.9	27	9.1
June	3,292	8.3	2,164	7.5	2,396	11.3	27	9.1
July	3,457	8.7	2,304	8.0	2,764	13.0	17	5.7
August	3,432	8.6	2,314	8.1	4,505	21.2	33	11.1
September	3,531	8.9	2,177	7.6	2,611	12.3	35	11.8
October	3,412	8.6	2,376	8.3	1,419	6.7	25	8.4
November	3,081	7.7	2,375	8.3	946	4.5	17	5.7
December	3,169	7.9	2,565	8.9	1,068	5.0	21	7.1
Total residents	39,893	100.0	28,686	100.0	21,245	100.0	296	100.0
Non-residents	200		331		*		1	
TOTAL	**40,093**		**29,017**		**21,245**		**297**	

Note: Total percentage may not add up to 100 due to rounding.
*Marriage counts by month are based on event place and include non-residents.

FIGURE 8

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

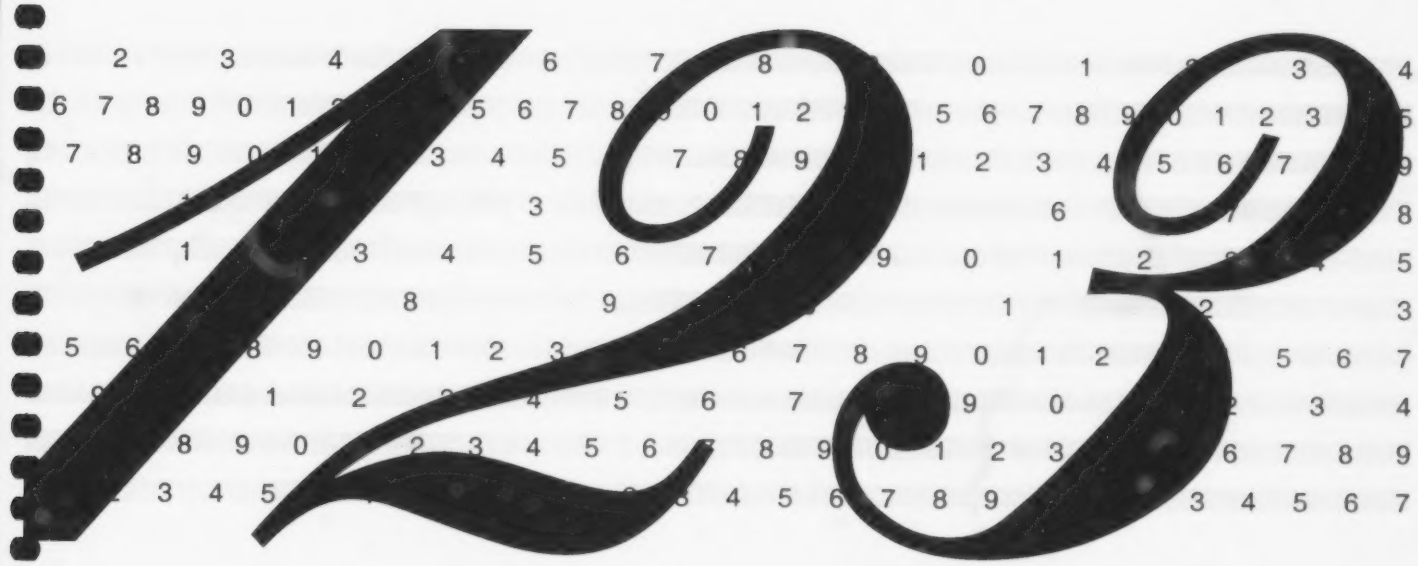
BRITISH COLUMBIA, 2002



HIGHLIGHTS TO TABLE 6/FIGURE 8

- Of vital events in the province, only marriages show a marked seasonal distribution. In 2002, the most popular month to marry was August, with more than a fifth (21.2%) of the year's total marriages, and the majority of marriages (57.8%) occurred in the summer (June to September). January was the least popular month for marriages in 2002.
- Live births were fairly evenly distributed over the twelve months in 2002, although the winter months (November, December, January, and February) had the lowest numbers. May and September had the largest number of live births.
- The highest number of deaths in 2002 occurred in March and the lowest number occurred in June.
- In 2002, the largest number of stillbirths occurred in September.

Birth-related Statistics



Vital Statistics Information Box

Most Chosen First Names for Babies in 2002

Each year a brochure listing all the given names that were chosen for five or more newborns is produced by the B.C. Vital Statistics Agency. Among the names chosen for five or more newborns, there were 571 different boys' names and 629 girls' names.

Over the past several years there has been a growing trend for alternate spellings of names. For a complete listing of all names and variants that were used five or more times please visit the Agency's website at: http://www.vs.gov.bc.ca/babynames/index.html.

	Baby Boys		Baby Girls	
Rank	Name	Number	Name	Number
1	Ethan	414	Emily	303
2	Joshua	308	Emma	266
3	Matthew	298	Hannah	212
4	Jacob	257	Sarah	211
5	Nicholas	233	Jessica	183
6	Justin	211	Madison	181
7	Ryan	194	Olivia	164
8	Benjamin	186	Grace	142
9	Liam	180	Megan	135
10	Alexander	175	Isabella	129
11	Tyler	170	Lauren	129
12	William	167	Chloe	127
13	Jordan	166	Samantha	126
14	Nathan	164	Taylor	125
15	Dylan	160	Ashley	120
16	Daniel	159	Paige	116
17	Michael	159	Julia	112
18	Logan	152	Sophia	111
19	Andrew	149	Sydney	108
20	Samuel	145	Rachel	106
21	Kyle	144	Alyssa	105
22	Brandon	142	Mackenzie	99
23	Aidan	141	Maya	96
24	Noah	141	Jenna	93
25	James	134	Elizabeth	88
26	Cole	133	Nicole	88
27	Adam	129	Kaitlyn	86
28	Cameron	129	Hailey	83
29	Zachary	129	Abigail	82
30	Lucas	121	Kayla	82
31	Thomas	121		

Summary

Statistics arising from birth events in British Columbia are presented in this section. These events are assigned to a Local Health Area (LHA) based on the usual residence of the mother. Information is included on birth weights, gestational ages, modes of delivery, maternal and paternal ages, birth orders, kinds of birth, complications of pregnancy and delivery, and complications in the perinatal period. Maps depicting variations in rates or ratios by LHA accompany several tables.

Statistics on birth events for 2002 are summarized below:

- There were 39,893 live births and 296 stillbirths in the province to B.C. residents. The live birth rate was 9.63 per 1,000 population; the stillbirth rate was 7.37 per 1,000 total births.
- There were 20,592 males (51.6%) and 19,301 females (48.4%) born in 2002.
- The average age of B.C. women giving birth in 2002 was 29.6 years.
- Out of 39,893 live births in 2002, only 3.0% were multiple births. There were 1,146 live born twins, 46 live born triplets and no quadruplets born in B.C. in 2002.
- Approximately two thirds (61.2%) of live births in 2002 were delivered spontaneously without assistance (forceps or vacuum). More than a quarter (27.9%) of all live births were delivered by cesarean section and almost two thirds (64.6%) of these were first cesareans. The 2002 cesarean section rate was 279.35 per 1,000 live births.
- Almost nine out of ten live births were delivered at term (from 37 to 41 weeks gestation) with normal birth weight (2,500 to 4,499 grams). These babies with "healthy" gestational ages and birth weights accounted for 88.0% of live births in 2002.
- In 2002, there were 2,103 live births with low birth weight (less than 2,500 grams). The provincial low birth weight (LBW) live birth rate was 52.72 per 1,000 live births.
- Of live births to teenage mothers (less than 20 years of age), 91.2% had healthy birth weights, 6.4% had low and 2.4% had high birth weights. For mothers in the 40 or older age group, 90.8% of live births had healthy birth weights, 6.8% had low and 2.4% had high birth weights.
- There were 2,811 pre-term (less than 37 weeks gestation) live births in 2002. A total of 1,488 babies (3.7%) were both pre-term and low birth weight; out of this group, approximately one in nine (174 births) was extremely premature (less than 28 weeks gestation) and had very low birth weight (less than 1,500 grams).

TABLE 7
BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER
BRITISH COLUMBIA, 2002

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
<13	1	-	-	-	-	-	-	-	-	-	1	-	1
13	4	-	-	-	-	-	-	-	-	-	4	-	4
14	9	-	-	-	-	-	-	-	-	-	9	-	9
15	50	1	-	-	-	-	-	-	-	-	51	1	52
16	144	8	-	-	-	-	-	-	-	-	152	2	154
17	277	19	1	-	-	-	-	-	-	-	297	2	299
18	394	59	3	-	-	-	-	-	-	-	456	1	457
19	525	102	11	-	-	-	-	-	-	-	638	11	649
20	653	194	31	3	-	-	-	-	-	-	881	4	885
21	687	304	75	11	1	-	-	-	-	-	1,078	9	1,087
22	634	380	79	16	1	1	-	-	-	-	1,111	8	1,119
23	788	469	124	34	1	2	-	-	-	-	1,418	12	1,430
24	862	577	172	34	14	5	-	-	-	-	1,664	12	1,676
25	907	578	209	48	9	4	-	-	-	-	1,755	13	1,768
26	1,000	728	214	73	19	6	1	-	-	-	2,041	9	2,050
27	1,073	852	299	69	24	7	2	1	-	-	2,327	9	2,336
28	1,135	869	311	96	23	9	2	-	-	-	2,445	18	2,463
29	1,205	998	338	99	29	9	-	-	-	-	2,678	19	2,697
30	1,128	1,061	353	110	18	9	7	2	1	-	2,689	15	2,704
31	1,125	1,132	428	114	24	13	9	2	-	-	2,847	22	2,869
32	1,059	1,145	376	114	32	18	5	2	2	-	2,753	25	2,778
33	862	986	410	101	42	13	2	6	1	-	2,423	12	2,435
34	708	918	357	106	35	16	2	1	1	-	2,144	16	2,160
35	556	788	343	100	38	10	3	2	4	-	1,844	12	1,856
36	541	682	296	90	24	13	4	1	5	-	1,656	16	1,672
37	402	528	213	83	34	14	10	2	5	-	1,291	11	1,302
38	279	430	210	76	28	7	2	4	3	-	1,039	13	1,052
39	224	332	162	60	22	8	5	2	2	-	817	10	827
40	155	240	90	35	20	6	2	2	5	-	555	4	559
41	96	131	57	37	23	6	2	5	9	-	366	5	371
42	53	84	46	19	11	6	2	-	4	-	225	1	226
43	32	40	34	10	7	4	1	1	4	-	133	1	134
44	14	13	14	4	4	1	2	2	3	-	57	2	59
45+	13	13	8	5	1	2	1	2	1	-	46	1	47
N.S.	2	-	-	-	-	-	-	-	-	-	2	-	2
TOTAL	**17,597**	**14,661**	**5,264**	**1,547**	**484**	**189**	**64**	**37**	**50**	**-**	**39,893**	**296**	**40,189**

Note: Birth order denotes the number of live births. Non-residents are excluded. N.S. – Not stated.

HIGHLIGHTS TO TABLE 7

- Of the 39,893 live births in 2002, almost half (44.1%) were first born (17,597), more than a third (36.8%) were second born (14,661), and about one in five (19.1%) was third born or greater (7,635).
- The average age of B.C. women giving birth in 2002 was 29.6 years. The average maternal age of first live births was 28.0 years, compared to 30.4 years for mothers of second live births and 31.8 years for mothers having their third or more live birth.
- In 2002, there were 1,608 live births to mothers younger than 20 years old, resulting in a teenage mother rate of 40.31 per 1,000 live births.
- There were 8,029 live births to mothers aged 35 or older in 2002. The elderly gravida rate has increased in recent years; the 2002 rate was 201.26 per 1,000 live births.
- There were 296 stillbirths in 2002. Including stillbirths, there were 40,189 total births in 2002 to B.C. residents. The 2002 stillbirth rate was 7.37 per 1,000 total births.

TABLE 8
LIVE BIRTHS BY AGE OF FATHER, AGE OF MOTHER AND OUT-OF-WEDLOCK
BRITISH COLUMBIA, 2002

Age of Father	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
< 15	1	-	-	-	-	-	-	-	-	1	0.0
15-19	4	333	79	9	-	-	-	-	-	425	1.1
20-24	1	570	1,781	459	67	16	2	-	-	2,896	7.3
25-29	-	196	2,263	4,260	1,063	138	18	-	-	7,938	19.9
30-34	-	69	879	4,180	6,058	1,136	89	3	-	12,414	31.1
35-39	-	21	271	1,321	3,859	3,036	342	2	-	8,852	22.2
40-44	-	9	71	353	1,060	1,525	515	12	-	3,545	8.9
45+	-	2	32	111	314	541	284	25	-	1,309	3.3
N.S.	8	394	776	553	435	255	86	4	2	2,513	6.3
TOTAL	**14**	**1,594**	**6,152**	**11,246**	**12,856**	**6,647**	**1,336**	**46**	**2**	**39,893**	
Percent	**0.0**	**4.0**	**15.4**	**28.2**	**32.2**	**16.7**	**3.3**	**0.1**	**0.0**		**100.0**
Out-of-Wedlock	**11**	**1,309**	**3,120**	**2,446**	**1,804**	**992**	**275**	**8**	**1**	**9,966**	

Note: Total percentage may not add up to 100 due to rounding.
Out-of-Wedlock denotes mother and father of child were not legally married to each other and excludes 1,787 cases where marital status was not stated.
Non-residents are excluded. N.S. – Not stated.

HIGHLIGHTS TO TABLE 8

- Out of 100 live births in 2002, approximately:
  - 4 were to teenage mothers, less than 20 years old (1,608)
  - 44 were to mothers 20 to 29 years old (17,398)
  - 49 were to mothers 30 to 39 years old (19,503)
  - 3 were to mothers 40 years of age or older (1,382)
- Out of 100 live births in 2002, approximately:
  - 1 was to a teenage father, less than 20 years old (426)
  - 27 were to fathers 20 to 29 years old (10,834)
  - 53 were to fathers 30 to 39 years old (21,266)
  - 12 were to fathers 40 years of age or older (4,854)
  - 6 did not include father's age (2,513)
- There were 338 live births (0.8%) where both parents were teenagers (less than 20 years of age) and 956 where only one of the parents was a teenager (2.4%).
- There were 836 live births (2.1%) where both parents were 40 years of age or older and 4,474 births where only one of the parents was 40 years or older (11.2%).
- One quarter (25.0%) of the live births in 2002 were reported as out-of-wedlock (9,966). The number of out-of-wedlock births is actually higher since births where it was not known if the parents were married to each other have not been included.

TABLE 9
LIVE BIRTHS BY AGE OF MOTHER AND KIND OF BIRTH
BRITISH COLUMBIA, 2002

Age of Mother	Kind of Birth				Total
	Single	Twin	Triplets+	N.S.	
<15	14	-	-	-	14
15-19	1,580	14	-	-	1,594
20-24	6,030	118	4	-	6,152
25-29	10,945	292	9	-	11,246
30-34	12,447	385	24	-	12,856
35-39	6,366	275	6	-	6,647
40-44	1,275	58	3	-	1,336
45 +	42	4	-	-	46
N.S.	2	-	-	-	2
TOTAL	**38,701**	**1,146**	**46**	**-**	**39,893**

Note: For the multiple births which include stillbirths, only live births are shown in this table.
Triplets+: included in this column are the live births from multiple births of three or more.
Non-residents are excluded. N.S. – Not stated.

HIGHLIGHTS TO TABLE 9

- Out of the 39,893 live births in 2002, only 1,192 or 3.0% were multiple births
- Of all live births in 2002:
  - Almost all (97.0%) were singletons (38,701)
  - One twin was born out of every 35 live births (1,146 twins)
  - A triplet was born once in 867 live births (46 triplets)
  - There were no quadruplets born in B.C. in 2002.
- Older mothers, 35 years of age or older, had the highest proportion of multiple births; 346 births or 4.3% of live births to these mothers were multiple births. The 832 multiple births to mothers aged 20 to 34 years accounted for 2.8% of births to mothers in this age group. The lowest proportion of multiple births was to teenage mothers; the 14 twins born to teens accounted for 0.9% of births to mothers in this age group.

Vital Statistics Information Box

HEALTH INEQUALITY BY LOCAL HEALTH AREA, 1986-2002

As the overall health of the British Columbia population improves, the distribution of health status across individuals and regions takes an increasing prominence in public discussion. Examining the distribution of BCVSA birth and death data across Local Health Areas (LHAs) provides one way to examine the inequality of health status across BC. This Information Box presents an analysis of health inequality across BC Local Health Areas (LHAs) using a simple summary measure of inequality, the ratio of quintile means.

The ratio of quintile means for a particular measure of population health is constructed by first ordering the LHAs from highest value of the measure to lowest value of the measure. The top quintile is then the 20% of LHAs with the highest value for the measure. The lowest quintile is the 20% of LHAs with the lowest value for the measure. The quintile mean is the arithmetic average of the measure within a given quintile. The ratio of the top quintile mean to the lowest quintile mean is a very simple measure of inequality. If the ratio increases, it means that the amount of inequality has increased, if the ratio falls, it means that the amount of inequality has fallen and the distribution of health has become more equal.

The ratio of quintile means can be calculated for any number of aggregate health statistics each of which may have a different measured degree of inequality. This analysis considers the distribution by LHA of two population health statistics; the percent of live births weighing below 2,500 grams and age standardized mortality rate. These were chosen because they are fundamental measures of population health.

(concluded on page37)

Vital Statistics Information Box

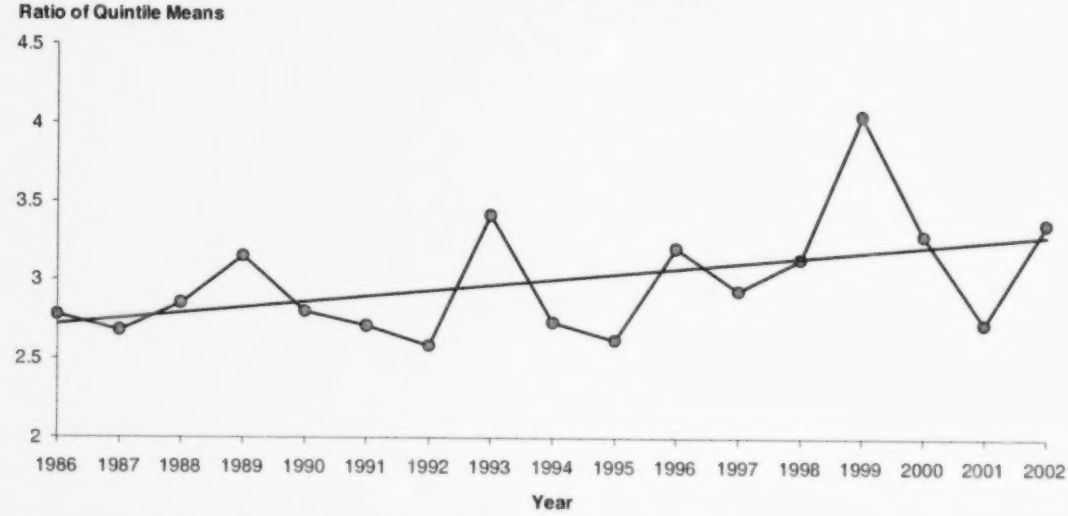
(continued from page 36)

The charts below plot out the value of the ratio of quintile means for the chosen statistics over the 17 year period from 1986 to 2002. The straight line shows the estimated linear trend.

Inequality in the rate of low birth weight has increased over the 17 year period. The ratio of the top quintile mean to the bottom quintile mean has increased from 2.8 to 3.6 over this time, an increase of 29%. The increasing trend is statistically significant at the 95% level. This means that the relative advantage in the percent of low birth weight babies within the LHAs with low rates compared to the LHAs with high rates is increasing over time.

Inequality in Rate of Low Birth Weight

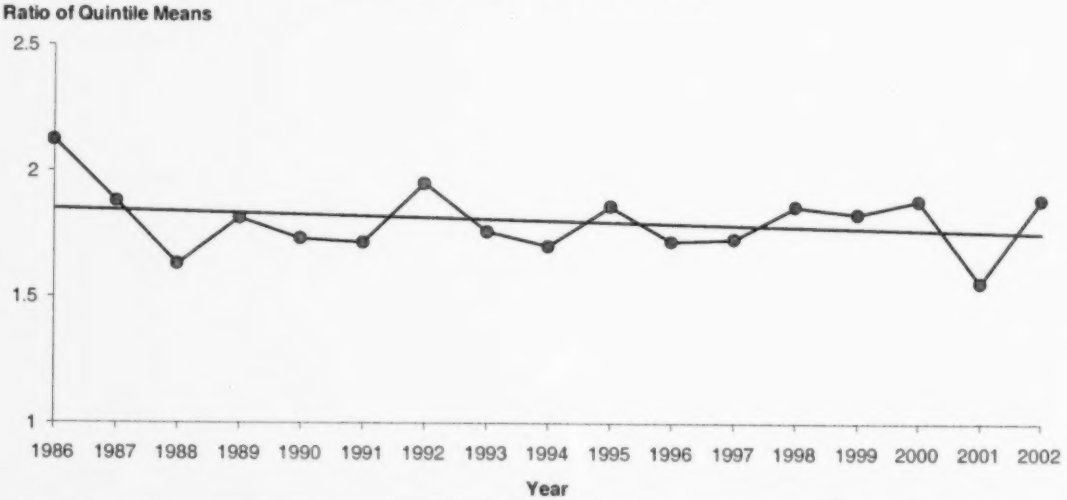
British Columbia, 1986-2002



Turning to the next chart, there is a very slight negative trend to the inequality in the ASMR between LHAs in the province. The negative trend is not, however, statistically significant. There has been little change in the relative positions of the LHAs with the best ASMRs compared to the LHAs with the worst ASMRs.

Inequality in Age Standardized Mortality Rate

British Columbia 1986-2002



LIVE BIRTH FERTILITY RATES BY LOCAL HEALTH AREA

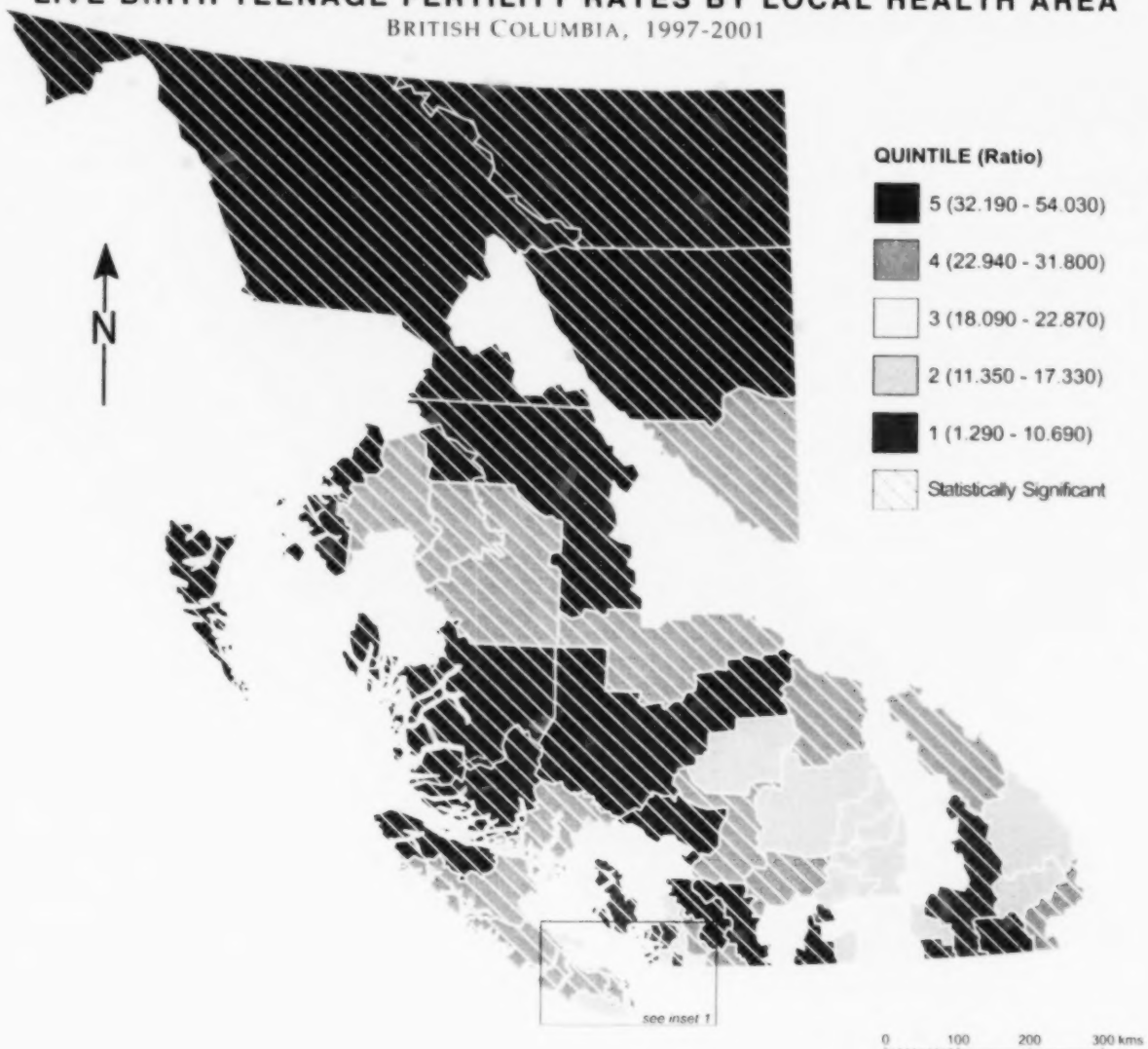
Local Health Area		1997–2001 Teenage Fertility Rate (15–19 yrs)			2002 ASFR[1]						TFR[2]	
		Observed	ASFR[1]	(p)	15–19	20–24	25–29	30–34	35–39	40–44	Rate	(p)
001	Fernie	53	20.53	*	10.31	63.23	77.09	50.10	25.36	3.84	1,149.61	
002	Cranbrook	117	24.29	*	20.71	74.70	90.77	64.25	28.57	0.97	1,399.87	
003	Kimberley	24	17.33		3.60	62.80	70.18	65.69	23.33	0.00	1,128.01	
004	Windermere	22	13.41		11.14	36.79	51.72	59.65	10.50	2.32	860.62	*
005	Creston	99	52.69	*	28.64	160.64	153.51	84.51	49.61	7.21	2,420.59	*
006/007	Kootenay Lake/Nelson	53	10.69	*	7.91	57.02	117.04	75.31	38.58	9.55	1,527.08	
009	Castlegar	30	12.47		6.65	58.82	104.97	50.57	21.53	5.66	1,241.05	
010	Arrow Lakes	14	19.66		0.00	78.26	94.83	72.85	5.81	5.59	1,286.68	
011	Trail	35	9.07	*	2.55	41.59	85.16	72.09	24.15	3.33	1,144.33	
012/013	Grand Forks/Kettle Valley	40	20.10		18.91	55.34	120.54	73.48	26.10	10.14	1,532.56	
014	Southern Okanagan	38	17.13		12.10	59.00	105.88	81.52	19.31	5.11	1,414.57	
015	Penticton	135	22.87	*	15.87	70.84	106.09	66.16	24.74	2.49	1,430.98	
016	Keremeos	20	33.22	*	0.00	127.66	164.71	80.36	22.73	5.32	2,003.85	*
017	Princeton	11	18.43		7.75	65.57	58.14	52.17	6.67	0.00	951.53	
018	Golden	35	25.22	*	18.87	82.35	61.37	91.58	16.39	8.60	1,395.79	
019	Revelstoke	29	18.37		19.29	69.26	112.11	66.89	13.70	2.34	1,417.95	
020	Salmon Arm	70	13.89		8.17	55.48	89.43	94.03	23.19	2.16	1,362.33	
021	Armstrong-Spallumcheen	22	11.71		5.36	65.45	101.45	46.22	25.77	2.08	1,231.70	
022	Vernon	148	14.85		8.24	66.67	107.62	88.82	31.08	5.73	1,540.75	*
023	Central Okanagan	359	15.14		10.04	50.06	94.07	84.16	34.09	5.07	1,387.49	
024	Kamloops	301	16.28		15.34	44.53	93.83	75.44	23.08	2.44	1,273.32	
025	100 Mile House	45	16.59		18.62	68.35	110.34	63.25	27.42	0.00	1,439.94	
026	North Thompson	25	26.43	*	9.57	103.77	151.52	71.01	39.60	4.37	1,899.17	*
027	Cariboo-Chilcotin	178	32.19	*	24.04	95.59	102.74	66.22	14.38	4.23	1,535.95	*
028	Quesnel	131	26.16	*	10.58	87.07	95.93	43.43	25.94	6.43	1,346.84	
029	Lillooet	35	40.79	*	32.71	121.74	120.57	73.86	26.04	18.69	1,968.07	*
030	South Cariboo	40	30.33	*	17.06	80.00	58.48	73.45	28.47	3.32	1,303.91	
031	Merritt	57	26.75	*	19.52	74.29	116.67	75.80	27.33	1.90	1,577.55	
032	Hope	53	39.85	*	34.01	94.53	102.41	62.75	15.87	3.01	1,562.90	
033	Chilliwack	329	27.80	*	23.85	84.65	123.05	83.50	24.42	4.98	1,722.19	*
034	Abbotsford	389	18.87	*	15.29	78.01	127.65	94.90	27.60	7.01	1,752.28	*
035	Langley	204	9.97	*	11.28	47.49	113.74	101.73	36.16	8.25	1,593.23	*
036	Surrey	819	13.83	*	10.77	57.41	122.60	99.65	43.74	8.02	1,710.97	*
037	Delta	119	6.58	*	6.35	36.27	107.58	110.82	50.53	7.44	1,594.95	*
038	Richmond	122	4.14	*	2.97	13.70	72.08	91.54	49.37	9.29	1,194.76	*
040	New Westminster	140	20.79	*	15.67	43.20	75.66	65.23	46.97	7.90	1,373.14	
041	Burnaby	286	9.28	*	6.56	22.08	67.61	90.40	51.24	9.13	1,235.12	*
042	Maple Ridge	165	12.64	*	8.70	44.83	105.52	95.90	34.31	5.33	1,472.93	*
043	Coquitlam	259	7.71	*	5.59	25.21	78.28	97.77	47.13	7.36	1,306.70	
044	North Vancouver	96	4.57	*	3.27	15.76	58.97	107.00	55.24	11.19	1,257.17	*
045	West Vancouver-Bowen Is.	15	1.89	*	1.11	5.51	50.26	117.70	61.17	10.97	1,233.67	
046	Sunshine Coast	37	9.61	*	8.73	63.91	104.80	92.75	26.94	6.11	1,516.29	
047	Powell River	72	21.82	*	14.20	88.02	123.15	77.49	26.42	3.56	1,664.21	*
048	Howe Sound	86	18.09		24.39	42.52	73.75	88.11	43.03	6.65	1,392.25	
049	Bella Coola Valley	33	53.66	*	57.55	182.80	81.97	68.18	61.22	0.00	2,258.62	*
050	Queen Charlotte	27	37.60	*	18.29	85.71	131.15	55.81	53.10	9.71	1,768.87	
051	Snow Country	3	19.11		0.00	0.00	156.25	193.55	0.00	0.00	1,748.99	
052	Prince Rupert	145	45.38	*	40.40	89.67	125.44	82.54	31.35	1.39	1,853.97	*
053	Upper Skeena	65	54.03	*	52.21	165.68	76.50	52.40	24.49	0.00	1,856.42	*
054	Smithers	95	26.60	*	18.89	74.27	148.81	94.40	29.57	8.53	1,872.32	*
055/093	Burns Lake/Eutsuk	49	31.80	*	29.74	79.86	105.93	69.96	9.55	3.77	1,494.10	
056	Nechako	127	35.92	*	34.43	117.13	127.62	82.26	33.09	4.18	1,993.61	*
057	Prince George	428	21.50	*	19.06	66.93	91.20	74.76	26.41	3.94	1,411.47	
059	Peace River South	152	29.90	*	19.50	118.34	101.06	72.15	13.07	1.65	1,628.99	*
060	Peace River North	203	34.74	*	23.79	108.58	139.67	77.36	25.42	8.14	1,914.84	*
061	Greater Victoria	351	11.35	*	11.26	23.72	54.39	71.67	41.13	6.97	1,045.72	*
062	Sooke	116	13.36		14.02	51.64	123.42	105.34	28.31	5.87	1,643.00	*
063	Saanich	70	7.79	*	6.59	32.74	100.66	115.24	37.53	7.11	1,499.39	
064	Gulf Islands	14	8.04	*	7.79	58.09	87.91	84.42	42.96	12.84	1,470.07	
065	Cowichan	229	25.65	*	21.01	77.09	111.31	79.51	26.81	6.55	1,611.40	*
066	Lake Cowichan	27	24.35	*	17.47	67.11	85.71	12.35	18.35	0.00	1,004.95	
067	Ladysmith	78	29.83	*	19.89	89.33	142.41	63.04	26.98	2.99	1,723.22	*
068	Nanaimo	295	18.69	*	14.34	61.05	84.12	75.36	26.12	5.35	1,331.67	
069	Qualicum	62	12.75		14.81	47.09	86.89	55.31	31.65	4.14	1,199.48	
070	Alberni	175	30.71	*	31.99	81.37	108.61	68.82	28.57	4.72	1,620.43	*
071	Courtenay	185	19.01	*	14.46	64.34	101.21	78.33	28.69	5.34	1,461.94	
072/084	Campbell River/V.I. West	185	23.72	*	18.63	79.28	117.54	82.63	24.41	3.50	1,629.96	*
075	Mission	151	22.94	*	15.69	87.04	144.69	78.59	30.87	10.51	1,837.00	*
076	Agassiz-Harrison	41	34.45	*	11.03	101.45	158.82	91.70	14.23	3.23	1,902.33	*
077	Summerland	10	5.39	*	7.28	45.87	108.11	108.43	20.35	4.27	1,471.59	
078	Enderby	23	17.10		31.47	58.48	141.89	54.22	19.06	0.00	1,525.70	
080	Kitimat	57	21.63	*	15.01	76.92	157.05	76.12	16.77	7.42	1,746.46	*
081	Fort Nelson	42	34.12	*	27.67	142.24	128.40	57.76	25.64	3.80	1,927.60	*
083	Central Coast	16	49.69	*	14.29	109.09	147.54	32.79	28.57	14.71	1,734.91	
085	Vancouver Island North	134	47.93	*	42.55	105.88	84.24	72.77	29.36	8.04	1,714.20	*
087/094	Stikine/Telegraph Creek	16	47.20	*	35.29	17.86	26.67	31.58	48.39	13.51	866.49	*
088	Terrace	128	31.74	*	35.76	113.60	96.40	60.67	25.22	4.78	1,682.17	*
092	Nisga'a	21	51.72	*	131.58	113.21	153.85	57.97	33.90	0.00	2,452.51	*
161	Vancouver City Centre	25	4.46	*	6.13	7.91	24.80	46.32	37.88	11.09	670.64	*
162	Vancouver Downtown E. Side	100	20.30	*	24.22	32.35	39.97	53.85	37.48	11.59	997.24	*
163	Vancouver North East	137	9.69	*	5.79	23.95	71.90	91.96	49.52	11.52	1,273.24	*
164	Vancouver West Side	23	1.29	*	0.53	6.00	27.55	77.25	65.75	17.40	972.38	*
165	Vancouver Midtown	140	13.00		12.31	26.64	49.22	71.11	51.74	15.10	1,130.62	*
166	Vancouver South	130	6.13	*	3.49	23.82	67.28	82.74	47.51	10.17	1,175.04	*
039	**VANCOUVER TOTAL**	**555**	**7.45**	*	**5.78**	**17.75**	**43.62**	**70.07**	**49.42**	**12.95**	**997.95**	*
	PROVINCIAL TOTAL	9,670	14.84		11.89	44.11	83.59	83.98	39.18	7.54	1,351.48	

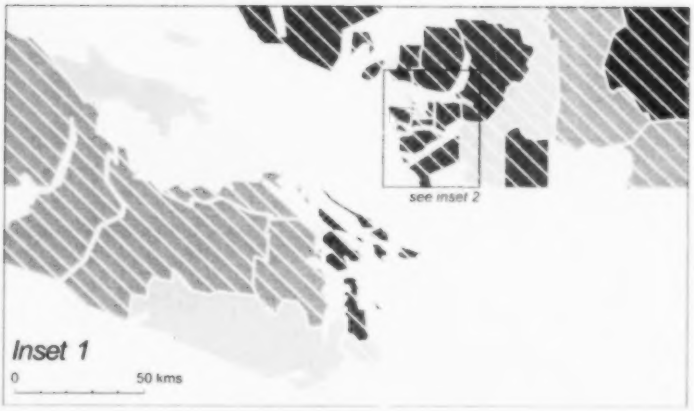
Note: [1] Age-Specific Fertility Rate (ASFR): Live births per 1,000 women in each specific age group of childbearing age.
[2] Total Fertility Rate (TFR): Sum of age-specific (15 to 44 years) fertility rates multiplied by the number of years in each age group (see Glossary for definition). * Statistical testing indicates that fertility rate is significantly different from the average rate ($p<0.05$, two tailed).
LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents and unknown LHA are excluded.

FIGURE 9

LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997-2001





Note: ASFR - Age-Specific Rate - Live births per 1,000 women age 15 to 19 years. Refer to Figure 1 to clarify geographical location of Local Health Area

HIGHLIGHTS TO TABLE 10/FIGURE 9

- The Province's 2002 Total Fertility Rate (TFR) was 1,351.48 births per 1,000 women of childbearing age (15 to 44 years of age). As shown in Table 3, this was the lowest rate since 1950. (See Glossary for a definition of total fertility rates.)
- There were 32 Local Health Areas (LHAs) with statistically significant TFRs that were higher than the Provincial TFR in 2002. The five highest were:

092	Nisga'a	2,452.51
005	Creston	2,420.59
049	Bella Coola Valley	2,258.62
016	Keremeos	2,003.85
056	Nechako	1,993.61

- There were 12 LHAs with statistically significant TFRs that were lower than the Provincial TFR in 2002. The five lowest were:

161	Vancouver City Centre	670.64
004	Windermere	860.62
087/094	Stikine/Telegraph Creek	866.49
164	Vancouver West Side	972.38
162	Vancouver Downtown E. Side	997.24

- There were 11.89 live births per 1,000 young women in the 15-19 year age group in 2002. This age-specific fertility rate for 2002 was lower than the 1997-2001 teenage fertility rate of 14.84.
- For the 1997-2001 period, there were 44 LHAs with statistically significant teenage fertility rates that were higher than the provincial teenage fertility rate. The five LHAs with the highest statistically significant rates (number of births in parentheses) were:

053	Upper Skeena	(65)	54.03
049	Bella Coola Valley	(33)	53.66
005	Creston	(99)	52.69
092	Nisga'a	(21)	51.72
083	Central Coast	(16)	49.69

- There were 20 LHAs in the 1997-2001 period with statistically significant teenage fertility rates that were lower than the provincial teenage fertility rate. The five LHAs with the lowest statistically significant rates (number of births in parentheses) were:

164	Vancouver West Side	(23)	1.29
045	West Vancouver-Bowen Is.	(15)	1.89
038	Richmond	(122)	4.14
161	Vancouver City Centre	(25)	4.46
044	North Vancouver	(96)	4.57

TABLE 11
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
BRITISH COLUMBIA, 2002

Mode of Delivery	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
Spontaneous vertex	11	1,139	4,194	7,076	7,636	3,678	650	19	1	24,404	61.2
Spontaneous breech	-	7	23	45	41	21	11	-	-	148	0.4
Forceps	-	53	207	441	546	263	39	3	-	1,552	3.9
Vacuum	-	126	395	836	850	376	61	1	-	2,645	6.6
First cesarean	3	254	1,039	1,970	2,278	1,311	329	11	1	7,196	18.0
Repeat cesarean	-	15	294	878	1,505	998	246	12	-	3,948	9.9
N.S.	-	-	-	-	-	-	-	-	-	-	-
TOTAL	**14**	**1,594**	**6,152**	**11,246**	**12,856**	**6,647**	**1,336**	**46**	**2**	**39,893**	**100.0**
Percent	**0.0**	**4.0**	**15.4**	**28.2**	**32.2**	**16.7**	**3.3**	**0.1**	**0.0**	**100.0**	

Note: Breech presentations may be coded to forceps, vacuum, first cesarean or repeat cesarean mode of delivery, as well as spontaneous breech. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. – Not stated.

HIGHLIGHTS TO TABLE 11

- Almost two thirds (61.6%) of live births in 2002 were delivered spontaneously: 61.2% (24,404) were spontaneous vertex (head first) and 0.4% (148) were spontaneous breech (buttocks or feet first). One in 26 births required the use of forceps (1,552 births) and one in 15 used vacuum (2,645 births).
- In 2002, more than a quarter of all live births (27.9%) were delivered by cesarean section (11,144) and almost two thirds of these (64.6%) were first cesareans (7,196). The 2002 cesarean section rate was 279.35 per 1,000 live births.
- Among teenage mothers (less than 20 years of age), one in six live births (16.9%) were delivered by cesarean section (272 births). Of these, 5.5% (15) were repeat cesarean sections.
- Just over one in four live births to mothers aged 20 to 34 (26.3%) were delivered by cesarean section (7,964). Of these deliveries, 33.6% (2,677) were repeat C-sections.
- For mothers aged 35 or older, more than one in three live births (36.2%) was delivered by cesarean section (2,907). Of these deliveries, 43.2% (1,256) were repeat C-sections.

Table 12

LIVE BIRTHS BY LOCAL HEALTH AREA AND MODE OF DELIVERY

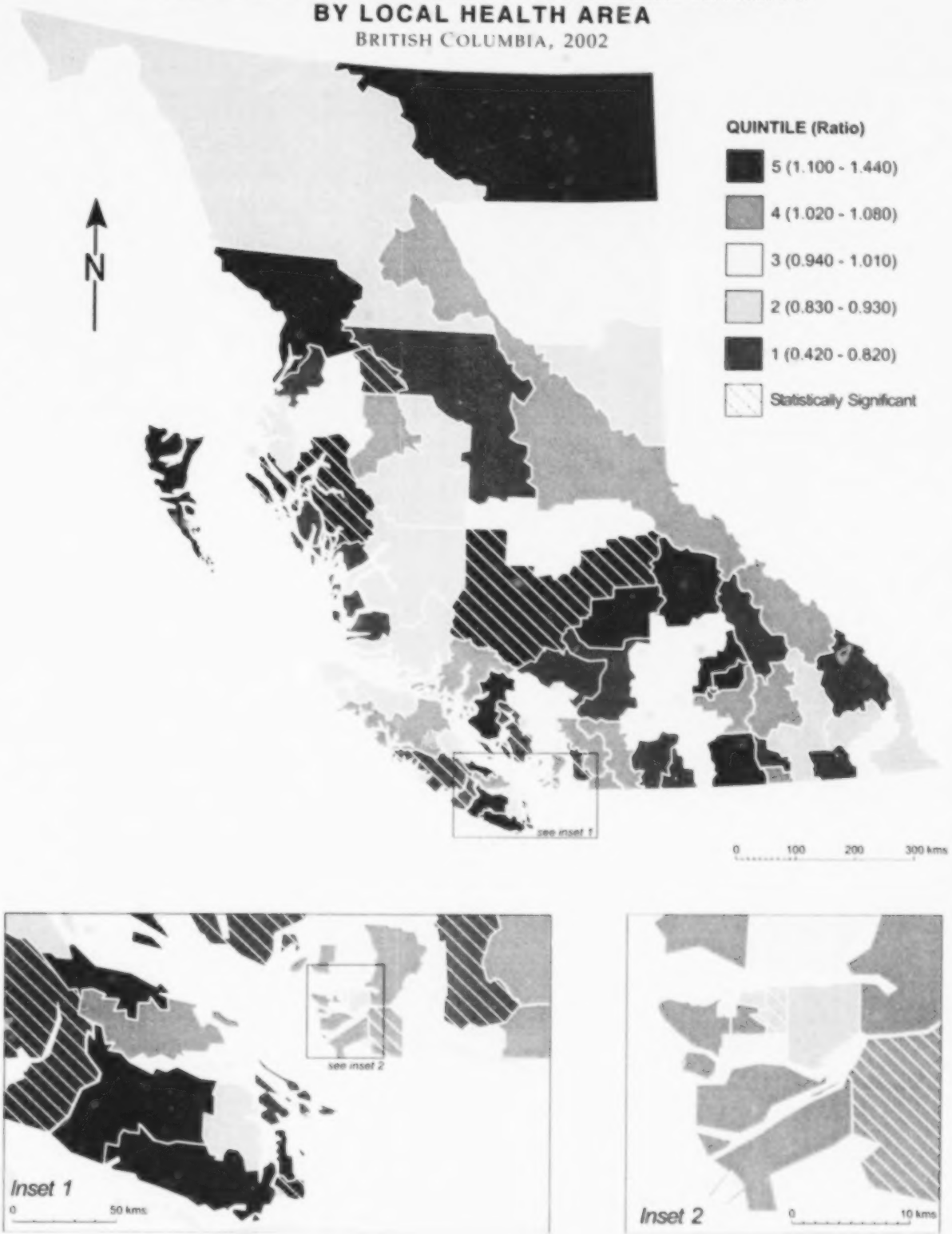
	Local Health Area	Spontaneous Vertex	Cesarean First	Repeat	Total	Ratio (p)	Percent	Other	N.S.	Total Live Births Number	Rate
001	Fernie	71	20	9	29	0.92	25.7	13	-	113	7.11
002	Cranbrook	152	42	18	60	0.95	26.4	15	-	227	8.81
003	Kimberley	36	10	2	12	0.64	23.5	3	-	51	5.79
004	Windermere	35	6	2	8	0.55	15.4	9	-	52	5.42
005	Creston	99	20	10	30	0.81	22.6	4	-	133	10.66
006/007	Kootenay Lake/Nelson	172	44	19	63	0.91	25.3	14	-	249	8.87
009	Castlegar	69	14	8	22	0.81	22.7	6	-	97	7.26
010	Arrow Lakes	22	8	2	10	1.08	30.3	1	-	33	6.32
011	Trail	75	20	16	36	1.07	30.0	9	-	120	5.91
012/013	Grand Forks/Kettle Valley	51	20	10	30	1.21	33.7	8	-	89	7.06
014	Southern Okanagan	71	17	12	29	0.98	27.4	6	-	106	5.79
015	Penticton	182	60	22	82	1.01	28.2	27	-	291	7.29
016	Keremeos	24	5	3	8	0.73	20.5	7	-	39	8.02
017	Princeton	12	1	1	2	0.42	11.8	3	-	17	3.63
018	Golden	44	12	10	22	1.04	28.9	10	-	76	9.92
019	Revelstoke	55	11	5	16	0.78	21.9	2	-	73	8.55
020	Salmon Arm	129	31	33	64	1.10	30.6	16	-	209	6.51
021	Armstrong-Spallumcheen	52	5	4	9	0.51 *	14.3	2	-	63	6.34
022	Vernon	332	92	60	152	1.05	29.5	32	-	516	8.62
023	Central Okanagan	843	192	148	340	0.94	26.2	115	-	1,298	8.34
024	Kamloops	559	152	86	238	0.99	27.7	63	-	860	8.30
025	100 Mile House	52	25	10	35	1.29	36.1	10	-	97	6.74
026	North Thompson	32	10	10	20	1.33	37.0	2	-	54	10.70
027	Cariboo-Chilcotin	171	67	37	104	1.29 *	36.0	14	-	289	10.05
028	Quesnel	142	32	28	60	0.99	27.6	15	-	217	8.45
029	Lillooet	46	6	7	13	0.78	21.7	1	-	60	12.27
030	South Cariboo	40	3	6	9	0.63	17.6	2	-	51	6.57
031	Merritt	71	17	12	29	0.95	26.6	9	-	109	9.47
032	Hope	39	14	6	20	1.05	29.4	9	-	68	7.80
033	Chilliwack	497	142	84	226	1.02	28.6	67	-	790	10.61
034	Abbotsford	947	254	158	412	0.94	26.3	206	-	1,565	12.53
035	Langley	778	198	124	322	0.95	26.6	112	-	1,212	10.43
036	Surrey	2,701	914	538	1,452	1.06 *	29.6	751	-	4,904	12.37
037	Delta	555	182	118	300	1.08	30.1	142	-	997	9.80
038	Richmond	896	297	170	467	1.06	29.5	220	-	1,583	9.07
040	New Westminster	383	129	54	183	1.00	28.1	86	-	652	11.32
041	Burnaby	1,319	380	172	552	0.93	26.0	254	-	2,125	10.32
042	Maple Ridge	532	150	79	229	0.96	26.9	89	-	850	10.06
043	Coquitlam	1,210	373	217	590	1.03	28.8	246	-	2,046	10.01
044	North Vancouver	758	223	123	346	0.98	27.5	154	-	1,258	9.30
045	West Vancouver-Bowen Is.	186	47	40	87	1.05	29.3	24	-	297	5.89
046	Sunshine Coast	136	24	14	38	0.72 *	20.1	15	-	189	6.99
047	Powell River	90	35	22	57	1.25	35.0	16	-	163	8.03
048	Howe Sound	247	71	27	98	0.94	26.3	28	-	373	12.20
049	Bella Coola Valley	36	8	5	13	0.88	24.5	4	-	53	15.10
050	Queen Charlotte	26	18	7	25	1.44	40.3	11	-	62	11.77
051	Snow Country	6	1	3	4	1.30	36.4	1	-	11	14.16
052	Prince Rupert	127	31	23	54	0.89	24.8	37	-	218	12.82
053	Upper Skeena	51	10	-	10	0.49 *	13.7	12	-	73	12.85
054	Smithers	139	40	26	66	1.07	30.0	15	-	220	12.26
055/093	Burns Lake/Eutsuk	50	12	7	19	0.87	24.4	9	-	78	9.95
056	Nechako	173	35	20	55	0.82	22.9	12	-	240	13.63
057	Prince George	662	192	118	310	1.07	29.8	68	-	1,040	10.39
059	Peace River South	198	39	30	69	0.84	23.5	26	-	293	10.62
060	Peace River North	307	78	47	125	0.97	27.2	27	-	459	14.71
061	Greater Victoria	1,029	365	152	517	1.13 *	31.5	94	-	1,640	7.84
062	Sooke	360	113	70	183	1.15	32.1	27	-	570	10.30
063	Saanich	263	84	49	133	1.15	32.1	18	-	414	6.73
064	Gulf Islands	71	14	5	19	0.74	20.7	2	-	92	6.34
065	Cowichan	316	87	28	115	0.89	24.8	32	-	463	8.80
066	Lake Cowichan	20	5	6	11	1.23	34.4	1	-	32	5.12
067	Ladysmith	92	19	18	37	0.95	26.6	10	-	139	8.43
068	Nanaimo	487	155	77	232	1.07	29.9	57	-	776	8.27
069	Qualicum	118	40	22	62	1.12	31.2	19	-	199	4.96
070	Alberni	197	43	22	65	0.78 *	21.9	35	-	297	9.38
071	Courtenay	313	62	48	110	0.87	24.2	31	-	454	7.79
072/084	Campbell River/V.I. West	261	74	44	118	1.05	29.4	23	-	402	9.53
075	Mission	284	54	42	96	0.82 *	22.8	41	-	421	11.11
076	Agassiz-Harrison	51	16	7	23	1.04	29.1	5	-	79	9.46
077	Summerland	41	13	4	17	0.94	26.2	7	-	65	5.67
078	Enderby	31	11	7	18	1.19	33.3	5	-	54	7.43
080	Kitimat	73	22	26	48	1.36 *	38.1	5	-	126	10.60
081	Fort Nelson	56	15	15	30	1.10	30.6	12	-	98	15.71
083	Central Coast	15	1	2	3	0.51	14.3	3	-	21	12.08
085	Vancouver Island North	106	24	13	37	0.84	23.6	14	-	157	11.28
087/094	Stikine/Telegraph Creek	8	2	1	3	0.83	23.1	2	-	13	6.53
088	Terrace	176	44	29	73	1.00	28.0	12	-	261	11.84
092	Nisga'a	24	5	2	7	0.78	21.9	1	-	32	16.88
161	Vancouver City Centre	436	183	43	226	1.01	28.3	136	-	798	8.21
162	Vancouver Downtown E. Side	283	74	34	108	0.87	24.2	55	-	446	8.52
163	Vancouver North East	712	180	82	262	0.83 *	23.3	151	-	1,125	11.25
164	Vancouver West Side	625	235	87	322	1.04	29.0	162	-	1,109	8.85
165	Vancouver Midtown	562	196	84	280	1.02	28.4	145	-	987	11.17
166	Vancouver South	704	221	107	328	0.97	27.0	181	-	1,213	9.45
039	**VANCOUVER TOTAL**	**3,322**	**1,089**	**437**	**1,526**	**0.96**	**26.9**	**830**	**-**	**5,678**	**9.60**
	N.S.	2	-	-	-	-	-	-	-	2	-
	PROVINCIAL TOTAL	**24,404**	**7,196**	**3,948**	**11,144**	**1.00**	**27.9**	**4,345**	**-**	**39,893**	**9.63**

Note: Ratio – observed over the expected cesareans in the specified area. Percent based upon live births in the specified area. *Statistical testing indicates that observed cesarean births are significantly different from the expected ($p<0.05$, two tailed). Other is comprised of spontaneous breech, forceps, and vacuum. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

FIGURE 10

CESAREAN DELIVERIES OF LIVE BORN INFANTS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002



Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Area

HIGHLIGHTS TO TABLE 12/FIGURE 10

- There were 11,144 cesarean deliveries of live born babies in 2002, and 24,404 spontaneous vertex deliveries. The 2002 cesarean section rate was 279.35 per 1,000 live births.
- The cesarean ratio is the number of C-section births in the area, compared to the number that would be expected based on the provincial rate and the number of live births in the area. The four Local Health Areas (LHAs) with cesarean ratios that were statistically significant and high in 2002 (with the number of cesarean deliveries in parentheses) were:

080	Kitimat	(48)	1.36
027	Cariboo-Chilcotin	(104)	1.29
061	Greater Victoria	(517)	1.13
036	Surrey	(1,452)	1.06

- There were six LHAs with cesarean ratios that were statistically significant and low in 2002 (with the number of cesarean deliveries in parentheses). These were:

053	Upper Skeena	(10)	0.49
021	Armstrong-Spallumcheen	(9)	0.51
046	Sunshine Coast	(38)	0.72
070	Alberni	(65)	0.78
075	Mission	(96)	0.82
163	Vancouver North East	(262)	0.83

- The 2002 provincial live birth rate was 9.63 live births per 1,000 population. The five LHAs with the highest live birth rates in 2002 (actual numbers in parentheses) were:

092	Nisga'a	(32)	16.88
081	Fort Nelson	(98)	15.71
049	Bella Coola Valley	(53)	15.10
060	Peace River North	(459)	14.71
051	Snow Country	(11)	14.16

- The five LHAs with the lowest live birth rates in 2002 (actual numbers in parentheses) were:

017	Princeton	(17)	3.63
069	Qualicum	(199)	4.96
066	Lake Cowichan	(32)	5.12
004	Windermere	(52)	5.42
077	Summerland	(65)	5.67

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
BRITISH COLUMBIA, 2002

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						
	Male	Female	<20	20–27	28–36	37–41	42+	N.S.	Total
<500	19	19	2	35	1	-	-	-	38
500-749	36	31	-	64	3	-	-	-	67
750-999	41	32	-	53	20	-	-	-	73
1,000-1,249	39	39	-	19	58	1	-	-	78
1,250-1,499	62	52	-	1	111	2	-	-	114
1,500-1,749	74	67	-	-	130	11	-	-	141
1,750-1,999	138	125	-	1	234	28	-	-	263
2,000-2,249	211	238	-	-	321	128	-	-	449
2,250-2,499	413	467	-	-	435	443	2	-	880
2,500-2,749	850	1,038	-	-	502	1,384	2	-	1,888
2,750-2,999	1,632	2,026	-	-	391	3,258	9	-	3,658
3,000-3,249	2,797	3,312	-	-	230	5,858	21	-	6,109
3,250-3,499	3,727	3,958	-	-	117	7,512	56	-	7,685
3,500-3,749	3,939	3,434	-	-	42	7,240	91	-	7,373
3,750-3,999	3,036	2,376	-	-	23	5,294	95	-	5,412
4,000-4,249	1,974	1,188	-	-	7	3,094	61	-	3,162
4,250-4,499	973	546	-	-	8	1,474	37	-	1,519
4,500-4,749	420	224	-	-	1	627	16	-	644
4,750-4,999	137	61	-	-	1	189	8	-	198
5,000-5,249	36	30	-	-	-	63	3	-	66
5,250-5,499	10	6	-	-	1	14	1	-	16
5,500+	7	4	-	-	-	11	-	-	11
N.S.	21	28	-	-	-	-	-	49	49
TOTAL	**20,592**	**19,301**	**2**	**173**	**2,636**	**36,631**	**402**	**49**	**39,893**

Note: Non-residents are excluded.
N.S. – Not stated.

HIGHLIGHTS TO TABLE 13

- There were 20,592 males (51.6%) and 19,301 females (48.4%) born in 2002. The average weight for a live born baby was 3,421 grams, 3,476 grams for males and 3,361 grams for females.
- In 2002, almost nine out of ten live births (35,114) were delivered at term (from 37 to 41 weeks gestation) with normal birth weight (2,500 to 4,499 grams). These babies with "healthy" gestational ages and birth weights accounted for 88.0% of live births in 2002.
- There were 2,103 live births with low birth weight (less than 2,500 grams) and 2,811 pre-term (less than 37 weeks gestation) live births in 2002. A total of 1,488 babies (3.7%) were both pre-term and low birth weight; out of this group, approximately one in nine (174 births) was extremely premature (less than 28 weeks gestation) and had very low birth weight (less than 1,500 grams).
- Post-term (42 or more weeks of gestation) deliveries occurred in 402 births in 2002. There were 935 births with high birth weight (4,500 grams or more), 28 of which were also post-term.
- Out of 1,000 live births in 2002, approximately:

by birth weight

- 53 were low birth weight (2,103 births), of which:
  - 1 had birth weight less than 500 grams (38)
  - 8 had birth weight from 500 to 1,499 grams (332)
- 923 were normal birth weight (36,806)
- 23 were high birth weight (935)
- 1 did not include birth weight (49)

by gestational age

- 70 were pre-term (2,811 births), of which:
  - 4 were extremely premature (less than 28 weeks) (175)
  - 66 were moderately premature (28–36 weeks) (2,636)
- 918 were term (36,631)
- 10 were post-term (402)
- 1 did not include gestational age (49)

TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
BRITISH COLUMBIA, 2002

Birth Weight (in Grams)	Age of Mother (in Years)									Total
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	
<500	-	4	5	13	7	8	1	-	-	38
500-749	-	4	10	20	18	11	4	-	-	67
750-999	1	-	12	23	23	13	1	-	-	73
1,000-1,249	-	4	12	14	34	11	3	-	-	78
1,250-1,499	-	8	11	26	42	20	7	-	-	114
1,500-1,749	-	10	16	29	53	28	5	-	-	141
1,750-1,999	-	11	54	70	56	63	8	1	-	263
2,000-2,249	1	23	67	119	123	87	28	1	-	449
2,250-2,499	-	37	150	216	277	165	33	2	-	880
2,500-2,749	-	74	309	461	620	359	63	2	-	1,888
2,750-2,999	3	138	576	987	1,196	619	130	9	-	3,658
3,000-3,249	1	233	967	1,753	1,924	1,016	208	7	-	6,109
3,250-3,499	3	294	1,190	2,174	2,518	1,263	235	8	-	7,685
3,500-3,749	-	299	1,106	2,138	2,382	1,216	225	6	1	7,373
3,750-3,999	3	211	795	1,576	1,763	865	194	5	-	5,412
4,000-4,249	2	144	494	890	1,039	483	109	1	-	3,162
4,250-4,499	-	62	240	436	480	248	51	2	-	1,519
4,500-4,749	-	27	95	194	193	117	16	2	-	644
4,750-4,999	-	6	23	61	66	32	10	-	-	198
5,000-5,249	-	3	11	21	17	12	2	-	-	66
5,250-5,499	-	-	2	3	7	4	-	-	-	16
5,500+	-	-	1	3	5	2	-	-	-	11
N.S.	-	2	6	19	13	5	3	-	1	49
TOTAL	**14**	**1,594**	**6,152**	**11,246**	**12,856**	**6,647**	**1,336**	**46**	**2**	**39,893**

Note: Non-residents are excluded.
N.S. – Not stated.

HIGHLIGHTS TO TABLE 14

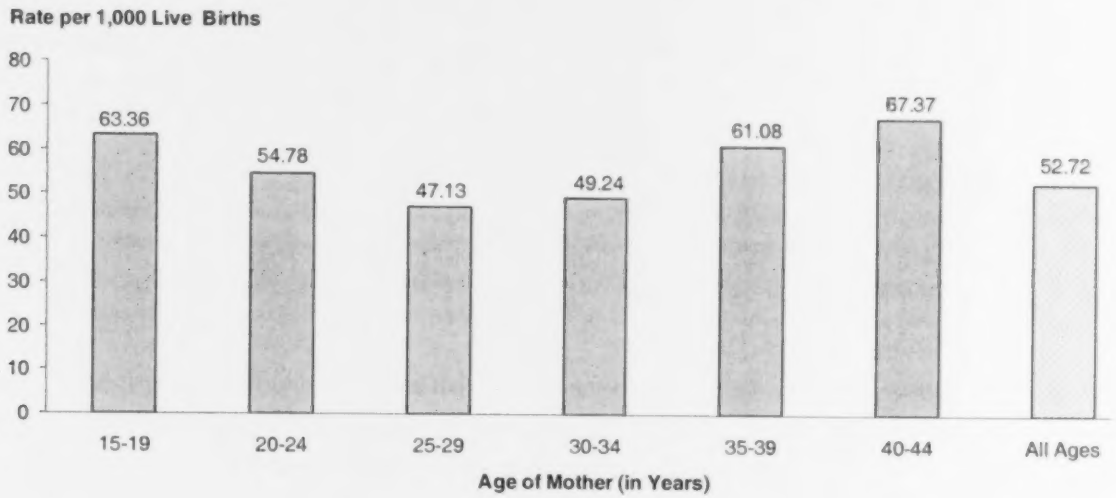
- There were 36,806 live births with healthy birth weights (2,500 to 4,499 grams) in 2002. Out of every 100 of these births, approximately:
  - 4 were births to teenage mothers (1,467)
  - 44 were births to mothers aged 20 to 29 years (16,092)
  - 49 were births to mothers aged 30 to 39 years (17,991)
  - 3 were births to mothers 40 years of age or older (1,255)
- There were 2,103 live births with low birth weight (less than 2,500 grams) in 2002. Out of every 100 of these births, approximately
  - 5 were births to teenage mothers (103)
  - 41 were births to mothers aged 20 to 29 years (867)
  - 49 were births to mothers aged 30 to 39 years (1,039)
  - 4 were births to mothers 40 years of age or older (94)
- There were 935 live births with high birth weight (4,500 grams or over) in 2002. Out of every 100 of these births, approximately
  - 4 were births to teenage mothers (36)
  - 44 were births to mothers aged 20 to 29 years (414)
  - 49 were births to mothers aged 30 to 39 years (455)
  - 3 were births to mothers 40 years of age or older (30)
- Nine out of ten (92.4%) births to mothers in the four maternal age groups from 20-24 to 35-39 had "healthy" birth weights. One in 19 births in these age groups (5.2%) had low birth weight and one in 42 (2.4%) had high birth weight.
- Of live births to teenage mothers (less than 20 years of age), 91.2% had healthy birth weights, 6.4% had low and 2.2% had high birth weights. For mothers in the 40 or older age group, 90.8% of live births had healthy birth weights, 6.8% had low and 2.2% had high birth weights.

TABLE 15
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER
BRITISH COLUMBIA, 2002

Age of Mother	Male		Female		Total		
	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	-	-	2	0.2	2	0.1	++
15-19	53	5.1	48	4.5	101	4.8	63.36
20-24	171	16.6	166	15.5	337	16.0	54.78
25-29	266	25.8	264	24.7	530	25.2	47.13
30-34	303	29.3	330	30.8	633	30.1	49.24
35-39	197	19.1	209	19.5	406	19.3	61.08
40-44	43	4.2	47	4.4	90	4.3	67.37
45 +	-	-	4	0.4	4	0.2	++
N.S.	-	-	-	-	-	-	-
TOTAL	**1,033**	**100.0**	**1,070**	**100.0**	**2,103**	**100.0**	**52.72**

Note: Rate per 1,000 live births for the specified age group.
Low birth weight: birth weight less than 2,500 grams.
++ Denotes the number of cases is less than five.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not stated.

FIGURE 11
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 2002



HIGHLIGHTS TO TABLE 15/FIGURE 11

- In 2002, there were 2,103 live births with low birth weight (less than 2,500 grams). The provincial low birth weight (LBW) live birth rate was 52.72 per 1,000 live births.
- Among live births in 2002, 5.0% of the 20,592 male births had low birth weight (1,033) and 5.5% of the 19,301 female births had low birth weight (1,070).
- Of the low birth weight live births, 50.9% were females.
- Mothers aged 25-29 had the lowest LBW rates (47.13 per 1,000 live births) in 2002, followed by the 30-34 and 20-24 maternal age groups (49.24 and 54.78 low birth weight births per 1,000 births respectively). The LBW rates by maternal age groups shown in Figure 11 do not include age less than 15 or age 45 and older since there were less than five live births in each of these groups.

LOW BIRTH WEIGHT LIVE BIRTHS BY GESTATIONAL AGE

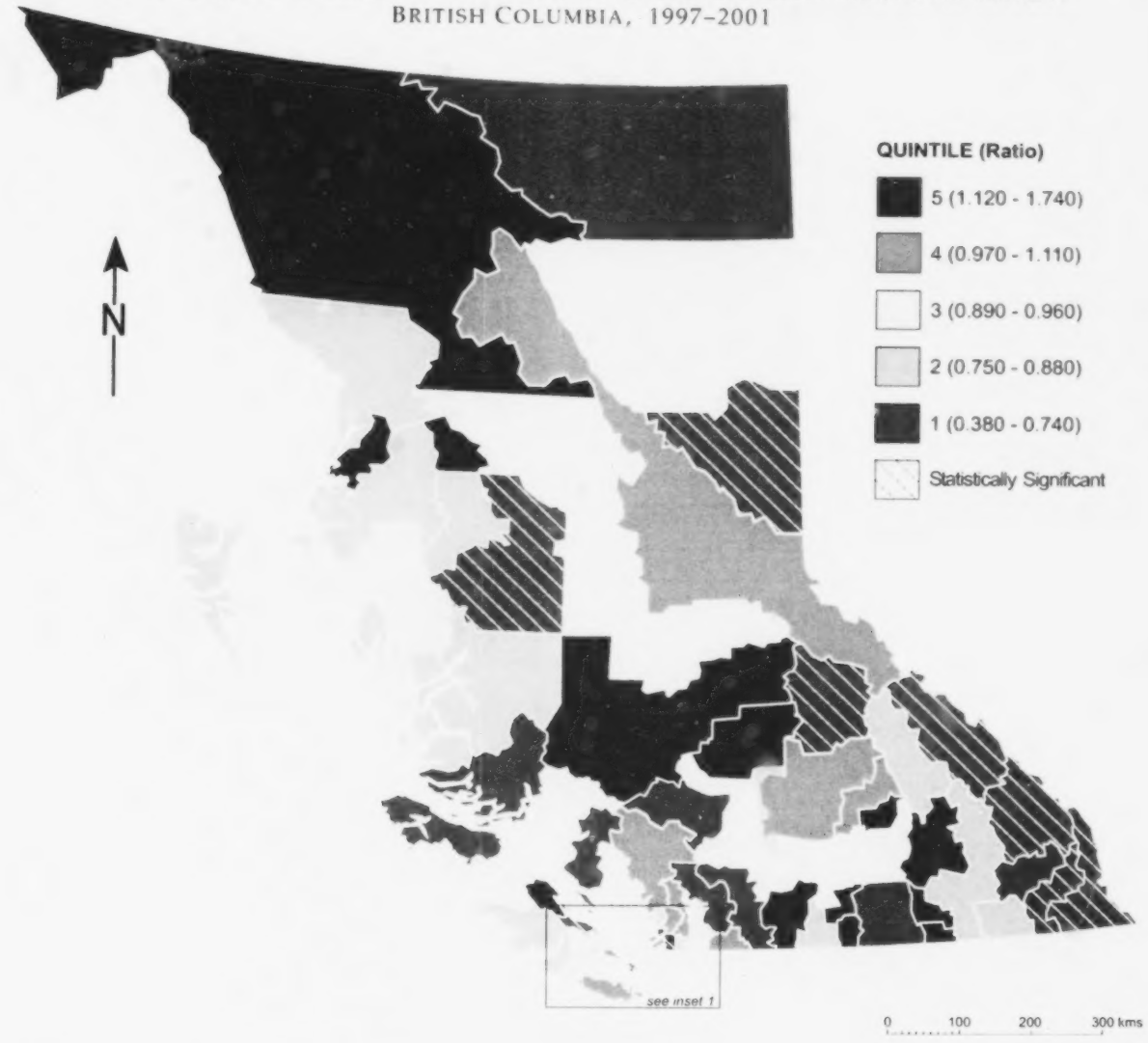
		1997–2001				2002					
		Low Birth Weight Live Births				Gestational Age (in Weeks)					
	Local Health Area	Observed	Ratio	(p)	Rate	<37	37–41	42+	N.S.	Total	Rate
001	Fernie	18	0.53	*	26.71	2	1	-	-	3	26.55
002	Cranbrook	43	0.69	*	34.79	8	4	-	-	12	52.86
003	Kimberley	11	0.69		34.48	-	1	-	-	1	19.61
004	Windermere	10	0.52	*	26.25	-	-	-	-	-	-
005	Creston	27	0.81		40.91	7	2	-	-	9	67.67
006/007	Kootenay Lake/Nelson	48	0.76		37.97	10	1	-	-	11	44.18
009	Castlegar	34	1.17		58.82	3	3	-	-	6	61.86
010	Arrow Lakes	18	1.47		74.07	2	1	-	-	3	90.91
011	Trail	46	1.13		56.58	8	1	-	-	9	75.00
012/013	Grand Forks/Kettle Valley	17	0.72		36.17	6	3	-	-	9	101.12
014	Southern Okanagan	42	1.13		56.83	5	1	-	-	6	56.60
015	Penticton	99	1.20		60.18	12	5	-	-	17	58.42
016	Keremeos	10	0.87		43.86	3	1	-	-	4	102.56
017	Princeton	13	1.50		75.58	-	-	-	-	-	-
018	Golden	9	0.48	*	24.06	2	2	-	-	4	52.63
019	Revelstoke	18	0.84		42.35	1	-	-	-	1	13.70
020	Salmon Arm	61	1.03		51.56	4	1	-	-	5	23.92
021	Armstrong-Spallumcheen	19	0.90		45.02	3	-	-	-	3	47.62
022	Vernon	124	0.92		46.22	22	10	-	-	32	62.02
023	Central Okanagan	330	0.95		47.85	51	11	-	-	62	47.77
024	Kamloops	264	1.10		55.25	31	13	-	-	44	51.16
025	100 Mile House	39	1.17		58.91	8	2	-	-	10	103.09
026	North Thompson	5	0.38	*	19.31	3	-	-	-	3	55.56
027	Cariboo-Chilcotin	106	1.18		59.09	20	7	-	-	27	93.43
028	Quesnel	65	0.91		45.81	15	3	-	-	18	82.95
029	Lillooet	10	0.63		31.85	2	1	-	-	3	50.00
030	South Cariboo	16	0.91		45.71	3	2	-	-	5	98.04
031	Merritt	29	0.93		46.70	4	3	-	-	7	64.22
032	Hope	13	0.64		32.02	4	-	-	-	4	58.82
033	Chilliwack	213	1.04		52.23	24	6	-	-	30	37.97
034	Abbotsford	376	0.93		46.72	52	25	-	-	77	49.20
035	Langley	267	0.85	*	42.71	37	18	-	-	55	45.38
036	Surrey	1,446	1.17	*	58.86	200	90	1	-	291	59.34
037	Delta	257	0.98		49.06	22	17	-	-	39	39.12
038	Richmond	402	1.00		50.22	56	31	-	-	87	54.96
040	New Westminster	194	1.20	*	60.29	23	14	-	-	37	56.75
041	Burnaby	575	1.14	*	57.04	85	37	-	-	122	57.41
042	Maple Ridge	224	1.01		50.75	34	12	-	-	46	54.12
043	Coquitlam	560	1.02		51.15	66	21	-	-	87	42.52
044	North Vancouver	269	0.80	*	40.34	41	20	-	-	61	48.49
045	West Vancouver-Bowen Is.	63	0.82		41.34	13	2	-	-	15	50.51
046	Sunshine Coast	52	0.96		48.06	2	2	-	-	4	21.16
047	Powell River	32	0.74		37.30	2	-	-	-	2	12.27
048	Howe Sound	108	1.07		53.78	12	4	-	-	16	42.90
049	Bella Coola Valley	10	0.82		41.15	3	-	-	-	3	56.60
050	Queen Charlotte	16	0.88		44.44	-	1	-	-	1	16.13
051	Snow Country	2	0.75		37.74	1	-	-	-	1	90.91
052	Prince Rupert	47	0.78		39.07	8	5	-	-	13	59.63
053	Upper Skeena	24	1.19		60.00	1	-	-	-	1	13.70
054	Smithers	54	0.82		41.19	12	1	-	-	13	59.09
055/093	Burns Lake/Eutsuk	13	0.51	*	25.44	3	1	-	-	4	51.28
056	Nechako	60	0.94		47.17	9	8	-	-	17	70.83
057	Prince George	302	1.02		51.02	48	15	1	-	64	61.54
059	Peace River South	58	0.71	*	35.78	8	1	-	-	9	30.72
060	Peace River North	109	0.91		45.82	9	10	-	-	19	41.39
061	Greater Victoria	435	0.98		49.35	70	28	-	-	98	59.76
062	Sooke	141	0.97		48.77	24	6	-	-	30	52.63
063	Saanich	83	0.81		40.69	21	3	-	-	24	57.97
064	Gulf Islands	16	0.67		33.54	5	2	-	-	7	76.09
065	Cowichan	119	0.90		45.25	22	10	-	-	32	69.11
066	Lake Cowichan	13	0.89		44.83	-	-	-	-	-	-
067	Ladysmith	39	1.01		50.52	6	3	-	-	9	64.75
068	Nanaimo	192	0.92		46.46	29	11	-	-	40	51.55
069	Qualicum	39	0.60	*	30.09	6	3	-	-	9	45.23
070	Alberni	68	0.85		42.53	7	7	-	-	14	47.14
071	Courtenay	150	1.16		58.53	12	3	-	-	15	33.04
072/084	Campbell River/V.I. West	102	0.90		45.31	13	4	-	-	17	42.29
075	Mission	101	0.93		46.61	18	4	-	-	22	52.26
076	Agassiz-Harrison	12	0.60		30.00	2	1	-	-	3	37.97
077	Summerland	18	0.90		45.45	1	-	-	-	1	15.38
078	Enderby	24	1.36		68.18	5	1	-	-	6	111.11
080	Kitimat	30	0.89		44.84	1	1	-	-	2	15.87
081	Fort Nelson	15	0.61		30.86	2	1	-	-	3	30.61
083	Central Coast	5	0.82		40.98	1	-	-	-	1	47.62
085	Vancouver Island North	34	0.74		37.00	9	1	-	-	10	63.69
087/094	Stikine/Telegraph Creek	9	1.74		87.38	-	-	-	-	-	-
088	Terrace	65	0.88		44.04	7	3	-	-	10	38.31
092	Nisga'a	9	1.12		56.25	-	-	-	-	-	-
161	Vancouver City Centre	169	1.00		50.49	26	12	-	-	38	47.62
162	Vancouver Downtown E. Side	130	1.06		53.48	23	6	-	-	29	65.02
163	Vancouver North East	328	1.11		55.95	51	26	-	-	77	68.44
164	Vancouver West Side	244	0.99		49.60	38	8	-	-	46	41.48
165	Vancouver Midtown	323	1.17	*	59.02	34	23	-	-	57	57.75
166	Vancouver South	355	1.08		54.03	43	26	-	-	69	56.88
039	**VANCOUVER TOTAL**	**1,549**	**1.08**	*	**54.16**	**215**	**101**	-	-	**316**	**55.65**
	N.S.	2				2	-	-	-	2	
	PROVINCIAL TOTAL	**10,547**	**1.00**		**50.25**	**1,488**	**613**	**2**	-	**2,103**	**52.72**

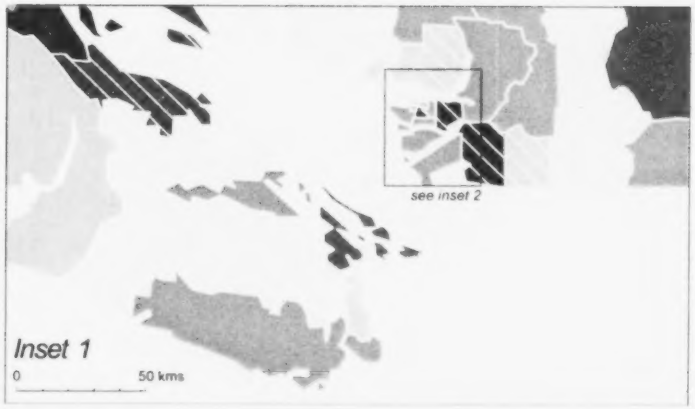
Note: Low Birth Weight – birth weight less than 2,500 grams. Ratio – observed over the expected low birth weight live births. * Statistical testing indicates that observed low birth weight live births are significantly different from the expected ($p<0.05$, two tailed). Rate per 1,000 live births in the specified area. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

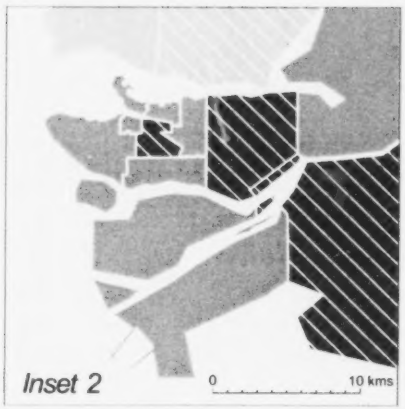
FIGURE 12

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997–2001







Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Area

HIGHLIGHTS TO TABLE 16/FIGURE 12

- The provincial low birth weight (LBW) (less than 2,500 grams) live birth rate for 2002 was 52.72 per 1,000 live births, higher than the 1997-2001 LBW rate (50.25).
- The five Local Health Areas (LHAs) with the highest LBW rates (based on at least five births) in 2002 (number of births in parentheses) were:

078	Enderby	(6)	111.11
025	100 Mile House	(10)	103.09
012/013	Grand Forks/Kettle Valley	(9)	101.12
030	South Cariboo	(5)	98.04
027	Cariboo-Chilcotin	(27)	93.43

- The five LHAs with lowest LBW rates (based on at least five births) in 2002 (number of births in parentheses) were:

020	Salmon Arm	(5)	23.92
059	Peace River South	(9)	30.72
071	Courtenay	(15)	33.04
033	Chilliwack	(30)	37.97
088	Terrace	(10)	38.31

- In 2002, Windermere, Princeton, Lake Cowichan, Stikine/Telegraph Creek, and Nisga'a did not have any low birth weight births, and there were 22 other LHAs with less than five LBW live births.
- There were four LHAs with low birth weight ratios for the period 1997-2001 that were statistically significant and high (number of births and LBW rate per 1,000 live births in parentheses). These were:

040	New Westminster	(194)	1.20	(60.29)
036	Surrey	(1,446)	1.17	(58.86)
165	Vancouver Midtown	(323)	1.17	(59.02)
041	Burnaby	(575)	1.14	(57.04)

- There were 10 LHAs with low birth weight ratios for the period 1997-2001 that were statistically significant and low, based on at least five births. The five lowest (number of births and LBW rate per 1,000 live births in parentheses) were:

026	North Thompson	(5)	0.38	(19.31)
018	Golden	(9)	0.48	(24.06)
055/093	Burns Lake/Eutsuk	(13)	0.51	(25.44)
004	Windermere	(10)	0.52	(26.25)
001	Fernie	(18)	0.53	(26.71)

HIGHLIGHTS TO TABLE 17

- Maternal complications of pregnancy and delivery were noted in 20,630 live births in 2002. Included in these maternal complications are early labour (preterm) births, multiple births, assisted or surgical deliveries where no cause was given, and elderly primigravida (first births to women aged 35 or older). Just over half (51.7%) of all live births in 2002 involved maternal complications. Maternal complications were noted in 48.7% of live births in 1997-2001.
- The percentage of live births with maternal complications of pregnancy and delivery increased with the age of mother. Teenage mothers had maternal complications in 44.6% of their births. In the age groups 20-29 and 30-39, maternal complications occurred in 47.4% and 55.3% of live births, respectively. For mothers aged 40 or older, the proportion rose to almost two thirds (63.5%).
- The largest categories of maternal complications of pregnancy and delivery in 2002 were assisted or surgical deliveries where no cause was given (21.3%) and maternal abnormality of pelvic organs (14.3%). These complications combined accounted for more than a third (35.6%) of all maternal complications.

TABLE 17

SELECTED MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER

BRITISH COLUMBIA, 1997–2001 AND 2002

Maternal Complications	ICD-10 Code(s)	1997–2001		2002						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Antepartum/intrapartum hemorrhage	O20, O44.1, O45-O46, O67	2,163	1.5	9	138	196	19	-	362	1.3
Hypertension/eclampsia	O10-O11, O13-O16	3,939	2.8	24	285	338	29	-	676	2.4
Early or threatened labour	O60	9,211	6.6	103	678	692	52	-	1,525	5.4
Prolonged pregnancy	O48	3,067	2.2	28	181	151	23	-	383	1.4
Hyperemesis gravidarum	O21	89	0.1	-	8	2	1	-	11	0.0
Infective and parasitic conditions	O23, O26.4, O75.2-O75.3, O85-O86, O91, O98	1,760	1.3	26	153	132	9	-	320	1.1
Diabetes in pregnancy	O24	3,047	2.2	9	138	309	31	-	487	1.7
Malposition and malpresentation	O32, O64	10,219	7.3	69	831	913	79	1	1,893	6.7
Disproportion	O33, O65	5,016	3.6	24	339	366	34	-	763	2.7
Abnormality of pelvic organs and structures	O34	17,907	12.8	16	1,196	2,537	266	-	4,015	14.3
Obstructed labour	O66	6,722	4.8	57	551	666	42	-	1,316	4.7
Abnormality of forces of labour	O62	4,832	3.4	47	359	411	35	-	852	3.0
Vaginal birth after previous cesarean section	O75.7	259	0.2	-	34	58	3	-	95	0.3
Maternal care for fetal abnormality or damage	O35-O36	7,691	5.5	81	780	866	57	-	1,784	6.3
Other problems of amniotic cavity or membranes	O40-44.0, O73, O75.5-O75.6	6,932	4.9	46	493	561	39	-	1,139	4.1
Umbilical cord complications	O69	2,661	1.9	28	244	257	10	-	539	1.9
Prolonged labour	O63	2,466	1.8	18	158	180	10	-	366	1.3
Obstetrical trauma	O70-O71	1,403	1.0	17	119	132	11	-	279	1.0
Post-partum trauma	O72, O74	2,583	1.8	21	182	166	13	-	382	1.4
Multiple gestation and related complications	O30-O31	4,928	3.5	14	420	669	65	-	1,168	4.2
Assisted or surgical delivery, no indication given	O81-O83, O84.1-O84.8	24,217	17.3	211	2,591	2,946	248	-	5,996	21.3
Elderly primigravida	Z35.5	5,636	4.0	-	1	1,171	149	-	1,321	4.7
Maternal complications of anesthesia	O74, O89	2	0.0	-	-	1	-	-	1	0.0
Maternal venous complications	O22, O87	67	0.0	-	4	7	-	-	11	0.0
Other maternal complications of pregnancy, labour or delivery and puerperium	O12, O25-O26.3, O26.5-O26.9, O47, O61, O68, O75.0-O75.1, O75.4, O75.8-O75.9, O88, O90, O92, O95-O97, O99	13,329	9.5	113	1,046	1,179	88	-	2,426	8.6
Total maternal complications (+)		**140,147**	**100.0**	**961**	**10,929**	**14,906**	**1,313**	**1**	**28,110**	**100.0**
Live births with the above maternal complications	**-Number**	**102,137**		**717**	**8,253**	**10,782**	**877**	**1**	**20,630**	
	-Percent(*)	**48.7**		**44.6**	**47.4**	**55.3**	**63.5**	**50.0**	**51.7**	

Note: Percent based upon total maternal complications. Percent (*) based upon live births for the specified maternal age group. (+) O00–O08 codes are not included due to the abortive outcomes of these conditions. Maternal complications may include codes other than those shown here. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. – Not stated.

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS

Table 18

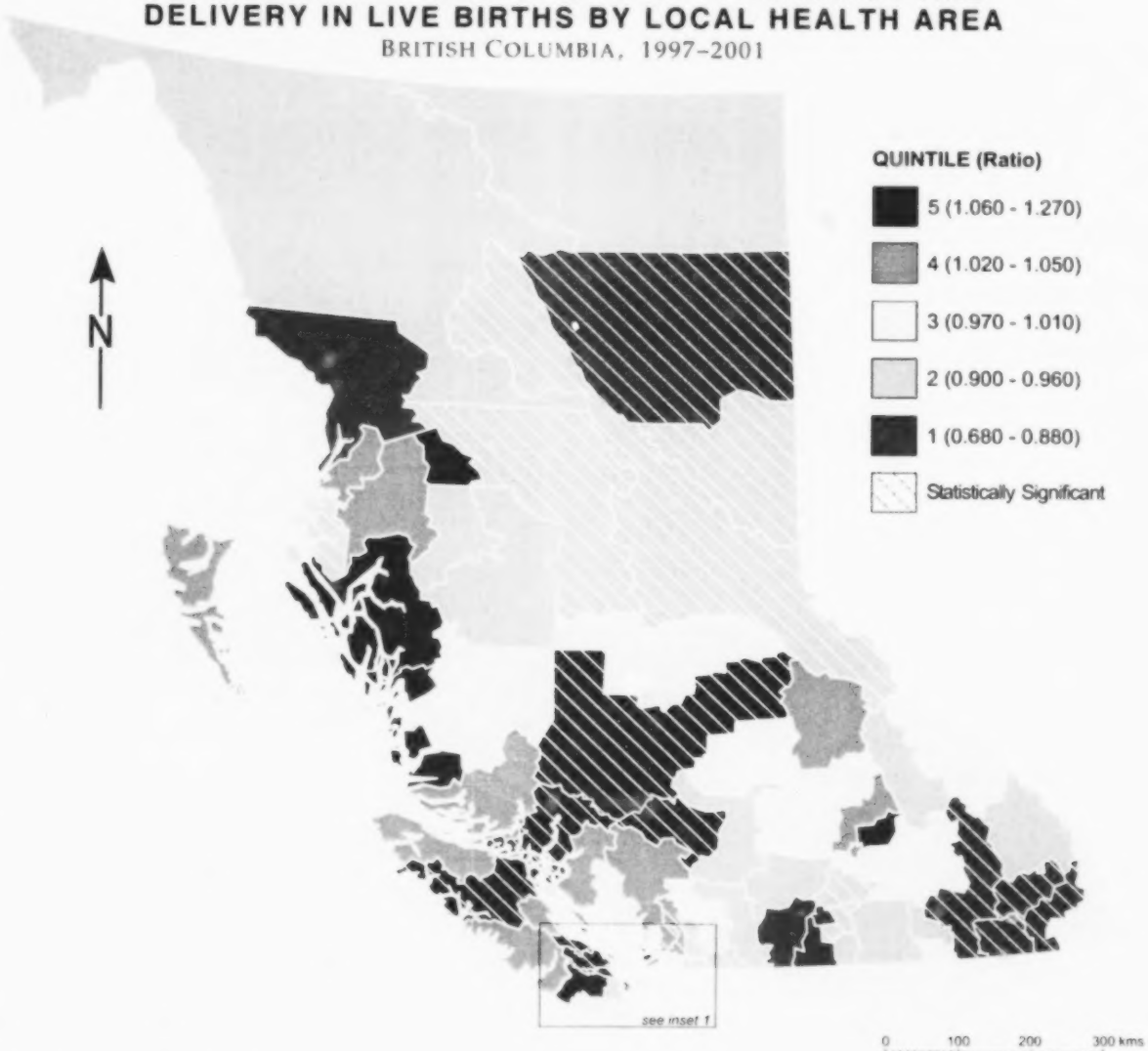
Local Health Area		1997–2001 Observed Births	Ratio (p)		Percent	Total Live Births	2002 Observed Births	Expected Births	Ratio (p)		Percent	Total Live Births
001	Fernie	331	1.01		49.1	674	71	58.4	1.22		62.8	113
002	Cranbrook	406	0.68	*	32.8	1,236	92	117.4	0.78	*	40.5	227
003	Kimberley	127	0.82	*	39.8	319	20	26.4	0.76		39.2	51
004	Windermere	178	0.96		46.7	381	23	26.9	0.86		44.2	52
005	Creston	276	0.86	*	41.8	660	51	68.8	0.74	*	38.3	133
006/007	Kootenay Lake/Nelson	538	0.87	*	42.6	1,264	113	128.8	0.88		45.4	249
009	Castlegar	262	0.93		45.3	578	43	50.2	0.86		44.3	97
010	Arrow Lakes	118	1.00		48.6	243	15	17.1	0.88		45.5	33
011	Trail	399	1.01		49.1	813	60	62.1	0.97		50.0	120
012/013	Grand Forks/Kettle Valley	205	0.90		43.6	470	47	46.0	1.02		52.8	89
014	Southern Okanagan	330	0.92		44.7	739	52	54.8	0.95		49.1	106
015	Penticton	729	0.91	*	44.3	1,645	168	150.5	1.12		57.7	291
016	Keremeos	94	0.85		41.2	228	21	20.2	1.04		53.8	39
017	Princeton	72	0.86		41.9	172	9	8.8	1.02		52.9	17
018	Golden	180	0.99		48.1	374	41	39.3	1.04		53.9	76
019	Revelstoke	193	0.93		45.4	425	23	37.8	0.61	*	31.5	73
020	Salmon Arm	596	1.04		50.4	1,183	102	108.1	0.94		48.8	209
021	Armstrong-Spallumcheen	209	1.02		49.5	422	21	32.6	0.64	*	33.3	63
022	Vernon	1,275	0.98		47.5	2,683	257	266.8	0.96		49.8	516
023	Central Okanagan	3,024	0.90	*	43.9	6,896	608	671.2	0.91	*	46.8	1,298
024	Kamloops	2,277	0.98		47.7	4,778	391	444.7	0.88	*	45.5	860
025	100 Mile House	312	0.97		47.1	662	51	50.2	1.02		52.6	97
026	North Thompson	129	1.02		49.8	259	27	27.9	0.97		50.0	54
027	Cariboo-Chilcotin	955	1.09	*	53.2	1,794	149	149.5	1.00		51.6	289
028	Quesnel	698	1.01		49.2	1,419	113	112.2	1.01		52.1	217
029	Lillooet	178	1.16	*	56.7	314	28	31.0	0.90		46.7	60
030	South Cariboo	153	0.90		43.7	350	23	26.4	0.87		45.1	51
031	Merritt	280	0.93		45.1	621	51	56.4	0.90		46.8	109
032	Hope	187	0.95		46.1	406	44	35.2	1.25		64.7	68
033	Chilliwack	1,886	0.95	*	46.2	4,078	396	408.5	0.97		50.1	790
034	Abbotsford	3,574	0.91	*	44.4	8,048	748	809.3	0.92	*	47.8	1,565
035	Langley	2,937	0.97		47.0	6,251	584	626.8	0.93		48.2	1,212
036	Surrey	12,002	1.00		48.9	24,566	2,663	2,536.0	1.05	*	54.3	4,904
037	Delta	2,624	1.03		50.1	5,238	567	515.6	1.10	*	56.9	997
038	Richmond	4,110	1.06	*	51.3	8,004	876	818.6	1.07	*	55.3	1,583
040	New Westminster	1,654	1.06	*	51.4	3,218	362	337.2	1.07		55.5	652
041	Burnaby	4,733	0.96	*	47.0	10,080	1,103	1,098.9	1.00		51.9	2,125
042	Maple Ridge	2,264	1.05	*	51.3	4,414	428	439.6	0.97		50.4	850
043	Coquitlam	5,523	1.04	*	50.4	10,949	1,118	1,058.1	1.06		54.6	2,046
044	North Vancouver	3,177	0.98		47.6	6,669	624	650.6	0.96		49.6	1,258
045	West Vancouver-Bowen Is.	715	0.96		46.9	1,524	140	153.6	0.91		47.1	297
046	Sunshine Coast	527	1.00		48.7	1,082	82	97.7	0.84		43.4	189
047	Powell River	426	1.02		49.7	858	95	84.3	1.13		58.3	163
048	Howe Sound	1,014	1.04		50.5	2,008	185	192.9	0.96		49.6	373
049	Bella Coola Valley	118	1.00		48.6	243	26	27.4	0.95		49.1	53
050	Queen Charlotte	179	1.02		49.7	360	42	32.1	1.31		67.7	62
051	Snow Country	20	0.78		37.7	53	5	5.7	0.88		45.5	11
052	Prince Rupert	524	0.90	*	43.6	1,203	110	112.7	0.98		50.5	218
053	Upper Skeena	206	1.06		51.5	400	39	37.8	1.03		53.4	73
054	Smithers	603	0.95		46.0	1,311	96	113.8	0.84		43.6	220
055/093	Burns Lake/Eutsuk	225	0.90		44.0	511	42	40.3	1.04		53.8	78
056	Nechako	554	0.90	*	43.6	1,272	121	124.1	0.97		50.4	240
057	Prince George	2,667	0.93	*	45.1	5,919	500	537.8	0.93		48.1	1,040
059	Peace River South	707	0.90	*	43.6	1,621	140	151.5	0.92		47.8	293
060	Peace River North	955	0.82	*	40.1	2,379	196	237.4	0.83	*	42.7	459
061	Greater Victoria	4,276	1.00		48.5	8,815	823	848.1	0.97		50.2	1,640
062	Sooke	1,402	1.00		48.5	2,891	294	294.8	1.00		51.6	570
063	Saanich	976	0.98		47.8	2,040	208	214.1	0.97		50.2	414
064	Gulf Islands	205	0.88		43.0	477	40	47.6	0.84		43.5	92
065	Cowichan	1,223	0.96		46.5	2,630	224	239.4	0.94		48.4	463
066	Lake Cowichan	156	1.11		53.8	290	13	16.5	0.79		40.6	32
067	Ladysmith	408	1.09		52.8	772	82	71.9	1.14		59.0	139
068	Nanaimo	2,551	1.27	*	61.7	4,133	512	401.3	1.28	*	66.0	776
069	Qualicum	779	1.24	*	60.1	1,296	144	102.9	1.40	*	72.4	199
070	Alberni	805	1.03		50.3	1,599	168	153.6	1.09		56.6	297
071	Courtenay	1,282	1.03		50.0	2,563	218	234.8	0.93		48.0	454
072/084	Campbell River/V.I. West	1,224	1.12	*	54.4	2,251	223	207.9	1.07		55.5	402
075	Mission	967	0.92	*	44.6	2,167	191	217.7	0.88		45.4	421
076	Agassiz-Harrison	196	1.01		49.0	400	40	40.9	0.98		50.6	79
077	Summerland	169	0.88		42.7	396	30	33.6	0.89		46.2	65
078	Enderby	185	1.08		52.6	352	28	27.9	1.00		51.9	54
080	Kitimat	360	1.11		53.8	669	67	65.2	1.03		53.2	126
081	Fort Nelson	213	0.90		43.8	486	46	50.7	0.91		46.9	98
083	Central Coast	70	1.18		57.4	122	11	10.9	1.01		52.4	21
085	Vancouver Island North	462	1.03		50.3	919	84	81.2	1.03		53.5	157
087/094	Stikine/Telegraph Creek	46	0.92		44.7	103	9	6.7	1.34		69.2	13
088	Terrace	737	1.03		49.9	1,476	145	135.0	1.07		55.6	261
092	Nisga'a	82	1.05		51.3	160	15	16.5	0.91		46.9	32
161	Vancouver City Centre	1,945	1.19	*	58.1	3,347	445	412.7	1.08		55.8	798
162	Vancouver Downtown E. Side	1,176	0.99		48.4	2,431	228	230.6	0.99		51.1	446
163	Vancouver North East	2,844	1.00		48.5	5,862	554	581.8	0.95		49.2	1,125
164	Vancouver West Side	2,625	1.10	*	53.4	4,919	616	573.5	1.07		55.5	1,109
165	Vancouver Midtown	2,817	1.06	*	51.5	5,473	539	510.4	1.06		54.6	987
166	Vancouver South	3,313	1.04	*	50.4	6,570	629	627.3	1.00		51.9	1,213
039	**VANCOUVER TOTAL**	**14,720**	**1.06**	*	**51.5**	**28,602**	**3,011**	**2936.3**	**1.03**		**53.0**	**5,678**
	N.S.	8	-		-	14	2	-	-		-	2
	PROVINCIAL TOTAL	**102,137**	**1.00**		**48.7**	**209,890**	**20,630**	**20,630.0**	**1.00**		**51.7**	**39,893**

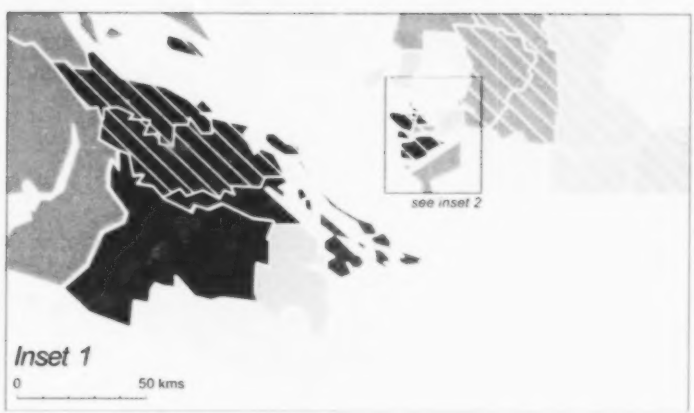
Note: Observed births denotes live births with at least one maternal complication code in ICD-9 (1997–1999) and ICD-10 (2000–2002). *Statistical testing indicates that the observed number of births with maternal complications is signficantly different from the expected ($p<0.05$, two tailed). Percent of observed births is based on total live births. Ratio-observed over expected. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

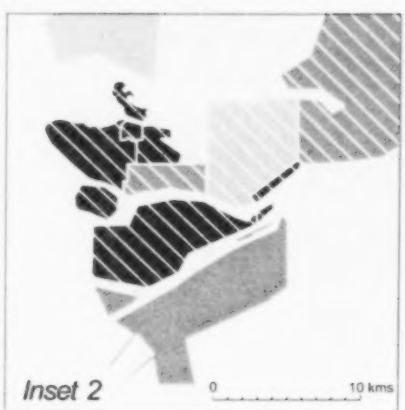
FIGURE 13

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997–2001







Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Area

HIGHLIGHTS TO TABLE 18/FIGURE 13

- There were five Local Health Areas (LHAs) with maternal complication ratios that were statistically significant and high (number of births with maternal complications in parentheses) in 2002. These were:

069	Qualicum	(144)	1.40
068	Nanaimo	(512)	1.28
037	Delta	(567)	1.10
038	Richmond	(876)	1.07
036	Surrey	(2,663)	1.05

- Qualicum, Nanaimo, and Richmond also had statistically significant high ratios for the 1997-2001 period.
- There were eight LHAs with maternal complication ratios that were statistically significant and low in 2002. The five LHAs with the lowest ratios that were statistically significant (number of births in parentheses) were:

019	Revelstoke	(23)	0.61
021	Armstrong-Spallumcheen	(21)	0.64
005	Creston	(51)	0.74
002	Cranbrook	(92)	0.78
060	Peace River North	(196)	0.83

- There were 13 LHAs with statistically significant and high maternal complication ratios in 1997-2001. The five LHAs with the highest ratios that were statistically significant (number of births in parentheses) were:

068	Nanaimo	(2,551)	1.27
069	Qualicum	(779)	1.24
161	Vancouver City Centre	(1,945)	1.19
029	Lillooet	(178)	1.16
072/084	Campbell River/V.I. West	(1,224)	1.12

- There were 15 LHAs with statistically significant and low maternal complication ratios in 1997-2001. The five LHAs with the lowest ratios that were statistically significant (number of births in parentheses) were:

002	Cranbrook	(406)	0.68
060	Peace River North	(955)	0.82
003	Kimberley	(127)	0.82
005	Creston	(276)	0.86
006/007	Kootenay Lake/Nelson	(538)	0.87

TABLE 19
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1997–2001 AND 2002

Perinatal Complications	ICD-10 Code(s)	1997–2001		2002						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Maternal conditions which may be unrelated to current pregnancy	P00	44	-	-	5	9	-	-	14	0.1
Complications of pregnancy, labour and delivery	P01, P03	18,579	19.0	83	1,110	1,441	121	-	2,755	15.0
Complications of placenta, cord and membranes	P02	3,547	3.6	33	314	406	20	-	773	4.2
Fetus affected by noxious influences transmitted via placenta (or breast milk)	P04 (+)	63	0.1	2	6	-	-	-	8	0.0
Slow fetal growth/malnutrition/ small for dates	P05	3,725	3.8	38	398	505	35	-	976	5.3
Short gestation	P07.2-P07.3	13,386	13.7	132	1,114	1,357	112	-	2,715	14.8
Long gestation and high birth weight	P08	8,182	8.4	93	911	932	69	-	2,005	10.9
Birth trauma	P10-P15	386	0.4	3	40	23	1	-	67	0.4
Intrauterine hypoxia and birth asphyxia	P20-P21	48,189	49.3	434	3,876	4,147	282	-	8,739	47.7
Respiratory conditions of fetus and newborn	P22-P28	1,037	1.1	10	68	62	3	-	143	0.8
Cardiovascular disorders originating in perinatal period (excluding congenital malformations)	P29 (+)	15	-	-	3	4	1	-	8	0.0
Infections specific to the perinatal period	P35-P39	67	0.1	1	3	6	1	-	11	0.1
Fetal and neonatal hemorrhage	P50-P52, P54	105	0.1	1	13	13	1	-	28	0.2
Perinatal jaundice/other hematological disorders	P53, P55-P61	65	0.1	-	2	3	-	-	5	0.0
Perinatal endocrine and metabolic disturbances	P70-P74	41	-	1	5	-	-	-	6	0.0
Perinatal digestive system disorders	P75-P78	5	-	-	-	1	1	-	2	0.0
Integument and temperature regulation conditions	P80-P83	100	0.1	2	6	11	1	-	20	0.1
Other and ill-defined perinatal conditions	P90-P96	222	0.2	3	24	13	-	-	40	0.2
Total perinatal conditions	**P00-P96**	97,760	100.0	836	7,898	8,935	648	-	18,317	100.0
Live births with the above	**- Number**	73,257		604	5,885	6,501	473	-	13,463	
perinatal complications	**- Percent(*)**	**34.9**		**37.6**	**33.8**	**33.3**	**34.2**	-	**33.7**	

Note: Percent based upon total perinatal complications. Percent (*) based upon live births for the maternal age group. (+) New category, no direct ICD-9 equivalent. Perinatal complications may include codes other than those shown here. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. – Not stated.

HIGHLIGHTS TO TABLE 19

- Perinatal complications were noted in 13,463 live births or one in three (33.7%) live births in 2002. These complications were noted in 34.9% of live births in 1997-2001.
- The proportion of births that had perinatal complications was highest (37.6%) in births to teenage mothers. Perinatal complications occurred in 33.8% of live births to mothers aged 20-29, 33.3% of live births to mothers aged 30-39, and 34.2% of live births to mothers 40 years of age and older.
- Intrauterine hypoxia and birth asphyxia accounted for almost half (47.7%) of the perinatal complications noted in 2002. The next largest categories of perinatal complications were complications of pregnancy, labour and delivery (15.0%), short gestation (14.8%), and long gestation and high birth weight (10.9%).

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA

Table 20

BRITISH COLUMBIA, 1997–2001 AND 2002

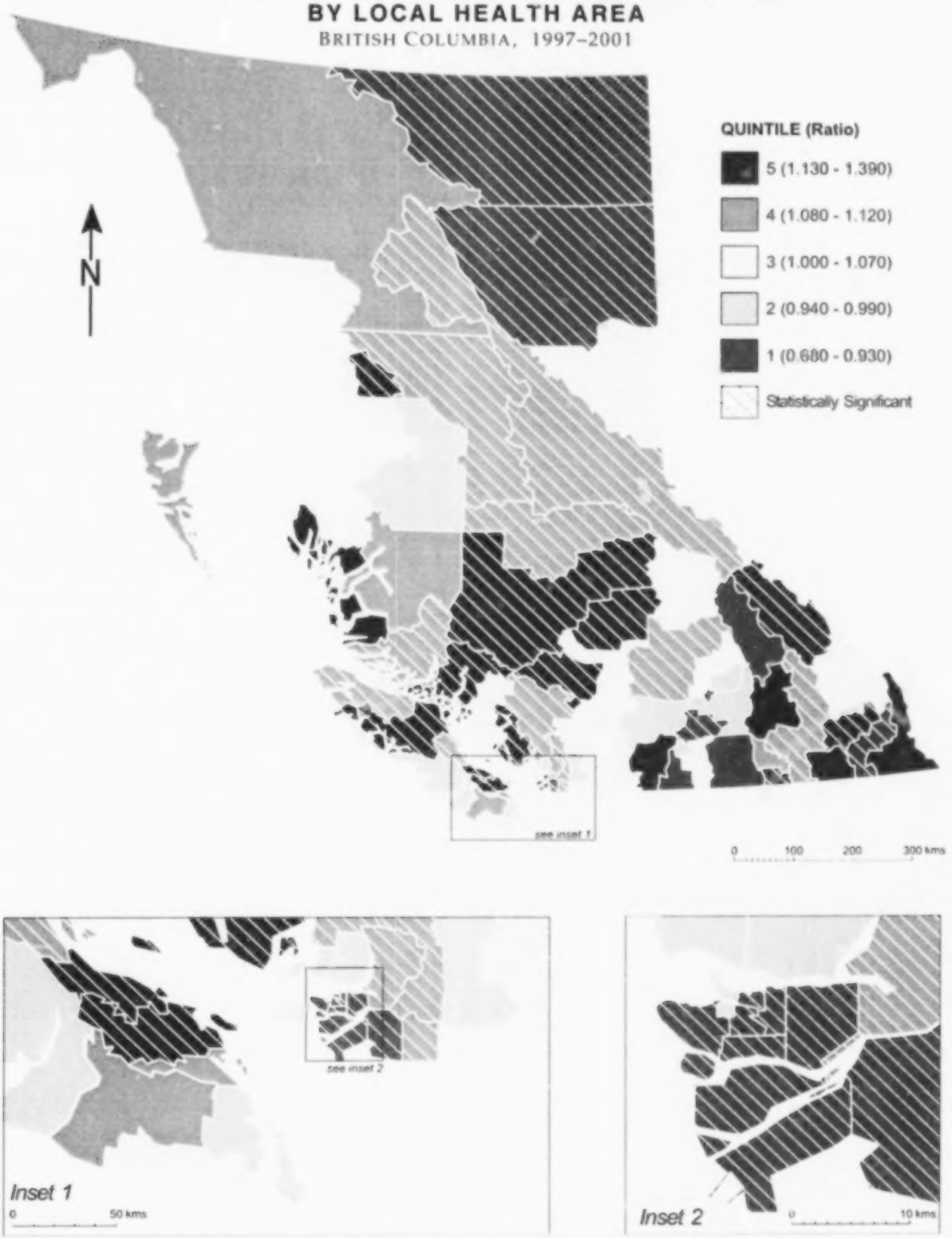
Local Health Area		1997–2001 Observed Births	Ratio (p)		Percent	Total Live Births	2002 Observed Births	Expected Births	Ratio (p)		Percent	Total Live Births
001	Fernie	266	1.13		39.5	674	43	38.1	1.13		38.1	113
002	Cranbrook	392	0.89	*	30.9	1,236	75	78.6	0.98		33.0	227
003	Kimberley	135	1.21	*	42.3	319	20	17.2	1.16		39.2	51
004	Windermere	134	1.01		35.2	381	21	17.5	1.20		40.4	52
005	Creston	261	1.13		39.5	660	52	44.9	1.16		39.1	133
006/007	Kootenay Lake/Nelson	493	1.12	*	39.0	1,264	73	84.0	0.87		29.3	249
009	Castlegar	221	1.10		38.2	578	35	32.7	1.07		36.1	97
010	Arrow Lakes	98	1.16		40.3	243	11	11.1	0.99		33.3	33
011	Trail	328	1.16	*	40.3	813	45	40.5	1.11		37.5	120
012/013	Grand Forks/Kettle Valley	145	0.88		30.9	470	30	30.0	1.00		33.7	89
014	Southern Okanagan	259	1.00		35.0	739	38	35.8	1.06		35.8	106
015	Penticton	574	1.00		34.9	1,645	105	98.2	1.07		36.1	291
016	Keremeos	71	0.89		31.1	228	16	13.2	1.22		41.0	39
017	Princeton	73	1.22		42.4	172	8	5.7	1.39		47.1	17
018	Golden	182	1.39	*	48.7	374	26	25.6	1.01		34.2	76
019	Revelstoke	128	0.86		30.1	425	24	24.6	0.97		32.9	73
020	Salmon Arm	417	1.01		35.2	1,183	71	70.5	1.01		34.0	209
021	Armstrong-Spallumcheen	136	0.92		32.2	422	18	21.3	0.85		28.6	63
022	Vernon	905	0.97		33.7	2,683	175	174.1	1.00		33.9	516
023	Central Okanagan	2,199	0.91	*	31.9	6,896	429	438.0	0.98		33.1	1,298
024	Kamloops	1,805	1.08	*	37.8	4,778	332	290.2	1.14	*	38.6	860
025	100 Mile House	285	1.23	*	43.1	662	53	32.7	1.62	*	54.6	97
026	North Thompson	96	1.06		37.1	259	20	18.2	1.10		37.0	54
027	Cariboo-Chilcotin	837	1.34	*	46.7	1,794	138	97.5	1.41	*	47.8	289
028	Quesnel	549	1.11	*	38.7	1,419	81	73.2	1.11		37.3	217
029	Lillooet	139	1.27	*	44.3	314	23	20.2	1.14		38.3	60
030	South Cariboo	125	1.02		35.7	350	23	17.2	1.34		45.1	51
031	Merritt	208	0.96		33.5	621	41	36.8	1.11		37.6	109
032	Hope	141	1.00		34.7	406	29	22.9	1.26		42.6	68
033	Chilliwack	1,523	1.07	*	37.3	4,078	310	266.6	1.16	*	39.2	790
034	Abbotsford	2,816	1.00		35.0	8,048	511	528.2	0.97		32.7	1,565
035	Langley	2,362	1.08	*	37.8	6,251	426	409.0	1.04		35.1	1,212
036	Surrey	7,740	0.90	*	31.5	24,566	1,431	1,655.0	0.86	*	29.2	4,904
037	Delta	1,651	0.90	*	31.5	5,238	291	336.5	0.86	*	29.2	997
038	Richmond	2,440	0.87	*	30.5	8,004	439	534.2	0.82	*	27.7	1,583
040	New Westminster	1,225	1.09	*	38.1	3,218	215	220.0	0.98		33.0	652
041	Burnaby	3,260	0.93	*	32.3	10,080	601	717.1	0.84	*	28.3	2,125
042	Maple Ridge	1,721	1.12	*	39.0	4,414	326	286.9	1.14	*	38.4	850
043	Coquitlam	4,243	1.11	*	38.8	10,949	713	690.5	1.03		34.8	2,046
044	North Vancouver	2,245	0.96		33.7	6,669	400	424.5	0.94		31.8	1,258
045	West Vancouver-Bowen Is.	521	0.98		34.2	1,524	82	100.2	0.82		27.6	297
046	Sunshine Coast	429	1.14	*	39.6	1,082	72	63.8	1.13		38.1	189
047	Powell River	319	1.07		37.2	858	61	55.0	1.11		37.4	163
048	Howe Sound	759	1.08	*	37.8	2,008	119	125.9	0.95		31.9	373
049	Bella Coola Valley	94	1.11		38.7	243	20	17.9	1.12		37.7	53
050	Queen Charlotte	139	1.11		38.6	360	21	20.9	1.00		33.9	62
051	Snow Country	19	1.03		35.8	53	3	3.7	0.81		27.3	11
052	Prince Rupert	424	1.01		35.2	1,203	70	73.6	0.95		32.1	218
053	Upper Skeena	176	1.26	*	44.0	400	32	24.6	1.30		43.8	73
054	Smithers	476	1.04		36.3	1,311	60	74.2	0.81		27.3	220
055/093	Burns Lake/Eutsuk	167	0.94		32.7	511	25	26.3	0.95		32.1	78
056	Nechako	498	1.12	*	39.2	1,272	93	81.0	1.15		38.8	240
057	Prince George	2,305	1.12	*	38.9	5,919	450	351.0	1.28	*	43.3	1,040
059	Peace River South	607	1.07		37.4	1,621	113	98.9	1.14		38.6	293
060	Peace River North	688	0.83	*	28.9	2,379	144	154.9	0.93		31.4	459
061	Greater Victoria	3,054	0.99		34.6	8,815	553	553.5	1.00		33.7	1,640
062	Sooke	1,023	1.01		35.4	2,891	220	192.4	1.14		38.6	570
063	Saanich	692	0.97		33.9	2,040	155	139.7	1.11		37.4	414
064	Gulf Islands	173	1.04		36.3	477	36	31.0	1.16		39.1	92
065	Cowichan	894	0.97		34.0	2,630	159	156.3	1.02		34.3	463
066	Lake Cowichan	109	1.08		37.6	290	10	10.8	0.93		31.3	32
067	Ladysmith	291	1.08		37.7	772	54	46.9	1.15		38.8	139
068	Nanaimo	1,930	1.34	*	46.7	4,133	389	261.9	1.49	*	50.1	776
069	Qualicum	594	1.31	*	45.8	1,296	94	67.2	1.40	*	47.2	199
070	Alberni	552	0.99		34.5	1,599	114	100.2	1.14		38.4	297
071	Courtenay	983	1.10	*	38.4	2,563	162	153.2	1.06		35.7	454
072/084	Campbell River/V.I. West	993	1.26	*	44.1	2,251	173	135.7	1.28	*	43.0	402
075	Mission	733	0.97		33.8	2,167	159	142.1	1.12		37.8	421
076	Agassiz-Harrison	140	1.00		35.0	400	29	26.7	1.09		36.7	79
077	Summerland	136	0.98		34.3	396	29	21.9	1.32		44.6	65
078	Enderby	115	0.94		32.7	352	20	18.2	1.10		37.0	54
080	Kitimat	242	1.04		36.2	669	53	42.5	1.25		42.1	126
081	Fort Nelson	116	0.68	*	23.9	486	28	33.1	0.85		28.6	98
083	Central Coast	48	1.13		39.3	122	6	7.1	0.85		28.6	21
085	Vancouver Island North	360	1.12	*	39.2	919	66	53.0	1.25		42.0	157
087/094	Stikine/Telegraph Creek	39	1.08		37.9	103	6	4.4	1.37		46.2	13
088	Terrace	544	1.06		36.9	1,476	111	88.1	1.26	*	42.5	261
092	Nisga'a	57	1.02		35.6	160	10	10.8	0.93		31.3	32
161	Vancouver City Centre	1,115	0.95		33.3	3,347	266	269.3	0.99		33.3	798
162	Vancouver Downtown E. Side	788	0.93	*	32.4	2,431	154	150.5	1.02		34.5	446
163	Vancouver North East	1,747	0.85	*	29.8	5,862	310	379.7	0.82	*	27.6	1,125
164	Vancouver West Side	1,581	0.92	*	32.1	4,919	384	374.3	1.03		34.6	1,109
165	Vancouver Midtown	1,728	0.90	*	31.6	5,473	298	333.1	0.89		30.2	987
166	Vancouver South	2,033	0.89	*	30.9	6,570	330	409.4	0.81	*	27.2	1,213
039	**VANCOUVER TOTAL**	**8,992**	**0.90**	*	**31.4**	**28,602**	**1,742**	**1,916.2**	**0.91**	*	**30.7**	**5,678**
	N.S.	8	-		-	14	2	-	-		-	2
	PROVINCIAL TOTAL	**73,257**	**1.00**		**34.9**	**209,890**	**13,463**	**13,463.0**	**1.00**		**33.7**	**39,893**

Note: Observed births denotes live births with at least one perinatal complication code in ICD-10. *Statistical testing indicates that the observed number of births with perinatal complications is signficantly different from the expected ($p<0.05$, two tailed). Percent of observed births is based on total live births. Ratio-observed over expected. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

FIGURE 14

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997–2001



Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Area

HIGHLIGHTS TO TABLE 20/FIGURE 14

- There were 10 Local Health Areas (LHAs) with the statistically significant and high perinatal complication ratios in 2002 (number of births in parentheses). The six LHAs with the highest ratios that were statistically significant (number of births in parentheses) were:

025	100 Mile House	(53)	1.62
068	Nanaimo	(389)	1.49
027	Cariboo-Chilcotin	(138)	1.41
069	Qualicum	(94)	1.40
057	Prince George	(450)	1.28
072/084	Campbell River/V.I. West	(173)	1.28

- All above LHAs also had statistically significant and high ratios for the 1997-2001 period.
- There were six LHAs that had statistically significant and low perinatal complication ratios in 2002 (number of births in parentheses). These were:

166	Vancouver South	(330)	0.81
038	Richmond	(439)	0.82
163	Vancouver North East	(310)	0.82
041	Burnaby	(601)	0.84
036	Surrey	(1,431)	0.86
037	Delta	(291)	0.86

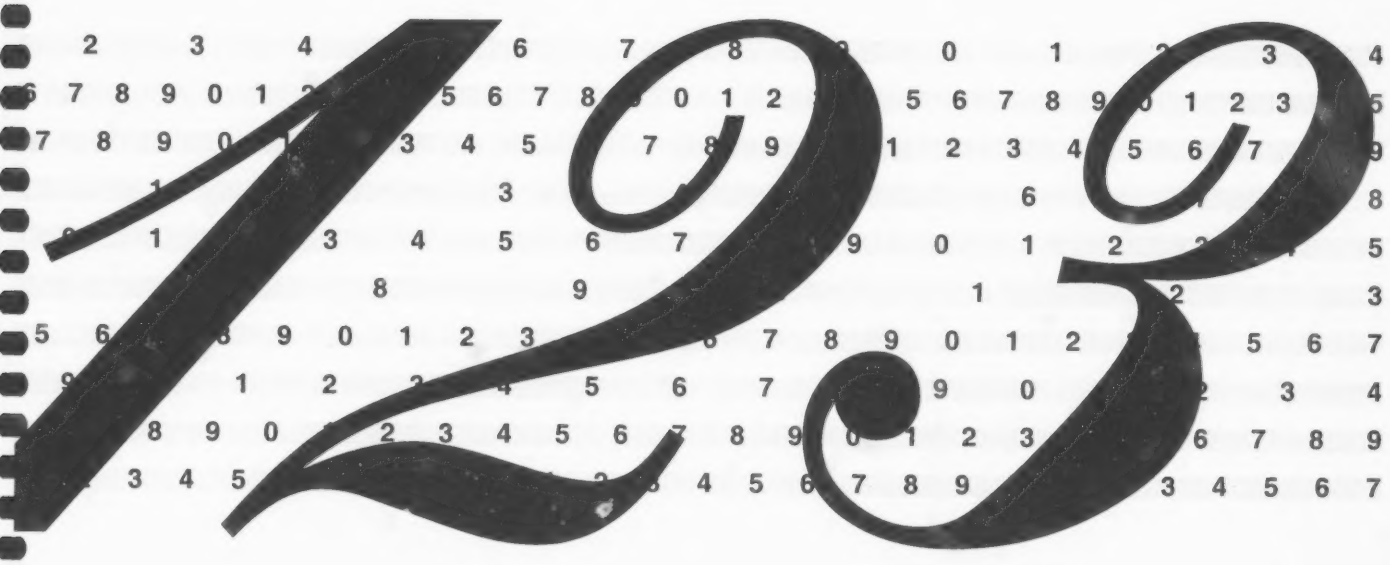
- All of the above LHAs also had statistically significant and low ratios for 1997-2001.
- There were 24 LHAs with statistically significant and high perinatal complication ratios in 1997-2001. The five LHAs with the highest ratios that were statistically significant (number of births in parentheses) were:

018	Golden	(182)	1.39
068	Nanaimo	(1,930)	1.34
027	Cariboo-Chilcotin	(837)	1.34
069	Qualicum	(594)	1.31
029	Lillooet	(139)	1.27

- There were 13 LHAs with statistically significant and low perinatal complication ratios in 1997-2001. The six LHAs with the lowest ratios that were statistically significant (number of births in parentheses) were:

081	Fort Nelson	(116)	0.68
060	Peace River North	(688)	0.83
163	Vancouver North East	(1,747)	0.85
038	Richmond	(2,440)	0.87
166	Vancouver South	(2,033)	0.89
002	Cranbrook	(382)	0.89

Death-related Statistics



Summary

Statistics arising from death events are presented in this section. Included are tables and figures containing information about deaths by age, gender and cause. Deaths are assigned to a Local Health Area (LHA) based on the usual residence of the decedent. Topics of particular interest are leading causes of death, infant mortality, alcohol-related, drug-induced and smoking-attributable causes, deaths from HIV disease, and deaths from accidents, and violence. Mortality statistics are provided in terms of Age Standardized Mortality Rates (ASMR), Standardized Mortality Ratios (SMR), Potential Years of Life Lost (PYLL), and Potential Years of Life Lost Standardized Rate (PYLLSR). Standardized measures are used to compare deaths in different geographical areas by age, gender and cause. In addition, maps are provided to geographically illustrate various patterns of mortality in British Columbia.

Statistics from deaths in 2002 are summarized below:

- There were 28,686 deaths in British Columbia in 2002, 460 more deaths than the 28,226 in 2001 (see Table 1). More than half of all deaths in 2002 (50.9%) were males (14,612 deaths), and 14,074 deaths were females. Over three quarters (78.4%) of all 2002 deaths were seniors (age 65 or older), and the oldest age group (80 years of age or more) accounted for almost five out of every ten deaths (46.9%).
- The Age Standardized Mortality Rate (ASMR) for all causes of death in 2002 was 54.36 per 10,000 standard population. The 2002 ASMR for males was 66.12 and for females it was 44.65.
- Based on the cause of death categories shown in Table 22, cancer (malignant neoplasms), cardiovascular disease and cerebrovascular disease, the top three leading causes of death, were responsible for almost sixty percent (59.3%) of the deaths in the province in 2002.
- Chronic lung disease was the fourth leading cause of death in 2002 for both genders combined (1,257 deaths) based on number of deaths. Chronic lung disease had an ASMR of 2.31 deaths per 10,000 standard population. Based on ASMR, accidental deaths (2.44 per 10,000 standard population) ranked fourth in 2002 accounting for 1,135 deaths, and also ranked fourth (3.34 per 10,000 standard population) in 1997-2001.
- There were 177 infant deaths (under one year of age) and 296 stillbirths in 2002, an increase from the 162 infant deaths and 282 stillbirths in 2001.
- The infant mortality rate for births with very low birth weight (less than 1,500 grams) was almost one in four (230.35 per 1,000 live births). The infant mortality rate for the babies with a gestational age of 20-27 weeks at birth was 439.31 per 1,000 live births, which reflects the low birth weight and fragile health of these babies.
- There were 1,588 deaths from accidents and violence among B.C. residents. Suicides and motor vehicle accidents each accounted for approximately one in four of these deaths. Accidental falls accounted for about one fifth and accidental poisoning accounted for about one eighth of deaths from external causes.
- Out of the 28,686 deaths in B.C. in 2002, 11,193 were under age 75. An average of 16.6 years of life were lost per death under 75 years of age.
- There were 1,818 alcohol-related deaths in 2002. Almost one half of all alcohol related deaths were seniors (aged 65+) and over a third were aged 45-64.
- There were 5,761 deaths that were attributed to smoking. Of the total, 3,457 or 60 per cent were male.
- There were 279 deaths in the province from drug-induced causes.

TABLE 21
CAUSES OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 2002

ICD-10 Code(s)	Causes of Death	Gender	Age Group (in Years)										Total		
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Number	Percent	ASMR
A00-B99	Certain infectious and parasitic diseases	M	-	1	-	-	-	-	55	94	57	50	257	1.8	1.11
		F	-	-	-	-	1	-	22	48	43	71	185	1.3	0.64
		T	-	1	-	-	1	-	77	142	100	121	442	1.5	0.87
C00-D48	Neoplasms	M	-	5	2	3	4	6	103	960	1,978	1,147	4,208	28.8	18.85
		F	-	2	2	4	6	6	115	945	1,553	1,292	3,925	27.9	13.99
		T	-	7	4	7	10	12	218	1,905	3,531	2,439	8,133	28.4	16.06
D50-D89	Diseases of blood and blood-forming organs,certain immune mechanisms	M	-	-	1	-	-	-	4	8	13	16	42	0.3	0.19
		F	-	-	-	1	-	-	-	2	17	26	46	0.3	0.14
		T	-	-	1	1	-	-	4	10	30	42	88	0.3	0.16
E00-E90	Endocrine/nutritional/metabolic diseases	M	1	1	1	1	1	2	15	107	241	191	561	3.8	2.53
		F	-	2	-	-	1	1	9	53	176	313	555	3.9	1.76
		T	1	3	1	1	2	3	24	160	417	504	1,116	3.9	2.13
F00-F99	Mental and behavioural disorders	M	-	-	-	-	-	-	15	54	78	127	274	1.9	1.22
		F	-	-	-	-	-	1	2	21	64	353	441	3.1	1.18
		T	-	-	-	-	-	1	17	75	142	480	715	2.5	1.25
G00-G99	Diseases of the nervous system	M	6	1	-	-	1	4	13	46	172	223	466	3.2	2.12
		F	2	-	-	1	2	1	11	50	159	445	671	4.8	2.02
		T	8	1	-	1	3	5	24	96	331	668	1,137	4.0	2.08
H00-H59	Diseases of the eye and adnexa	M	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-
		T	-	-	-	-	-	-	-	-	-	-	-	-	-
H60-H95	Diseases of the ear and mastoid process	M	-	-	-	-	-	-	-	-	1	-	1	0.0	+
		F	-	-	-	-	-	-	-	-	-	1	1	0.0	+
		T	-	-	-	-	-	-	-	-	1	1	2	0.0	+
I00-I99	Diseases of the circulatory system	M	-	-	1	1	1	2	76	656	1,742	2,328	4,807	32.9	21.64
		F	-	-	1	-	-	1	28	233	1,076	3,552	4,891	34.8	13.92
		T	-	-	2	1	1	3	104	889	2,818	5,880	9,698	33.8	17.38
J00-J99	Diseases of the respiratory system	M	-	-	-	-	-	-	17	98	498	880	1,493	10.2	6.76
		F	1	-	-	-	-	-	6	88	366	1,032	1,493	10.6	4.33
		T	1	-	-	-	-	-	23	186	864	1,912	2,986	10.4	5.30
K00-K93	Diseases of the digestive system	M	-	-	-	-	-	-	22	154	191	184	551	3.8	2.43
		F	-	-	-	-	-	2	17	88	131	308	546	3.9	1.71
		T	-	-	-	-	-	2	39	242	322	492	1,097	3.8	2.04
L00-L99	Diseases of the skin and subcutaneous tissue	M	-	-	-	-	-	-	-	3	1	8	12	0.1	0.05
		F	-	-	-	-	-	-	-	2	5	24	31	0.2	0.09
		T	-	-	-	-	-	-	-	5	6	32	43	0.1	0.07
M00-M99	Diseases of the musculoskeletal system and connective tissue	M	-	-	-	-	-	-	5	7	20	26	58	0.4	0.26
		F	-	-	-	-	1	-	5	17	32	86	141	1.0	0.44
		T	-	-	-	-	1	-	10	24	52	112	199	0.7	0.36
N00-N99	Diseases of the genitourinary system	M	-	-	-	-	-	-	1	27	68	152	248	1.7	1.12
		F	-	1	-	-	-	-	1	17	69	194	282	2.0	0.82
		T	-	1	-	-	-	-	2	44	137	346	530	1.8	0.94
O00-O99	Complications of pregnancy, childbirth and the puerperium	M	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	2	-	-	-	2	0.0	+
		T	-	-	-	-	-	-	2	-	-	-	2	0.0	+
P00-P96	Certain conditions originating in the perinatal period	M	50	-	1	-	-	-	-	-	-	-	51	0.3	0.36
		F	39	-	-	-	-	-	-	-	-	-	39	0.3	0.29
		T	89	-	1	-	-	-	-	-	-	-	90	0.3	0.33
Q00-Q99	Congenital anomalies	M	24	2	1	2	1	2	8	7	3	2	52	0.4	0.30
		F	19	1	-	-	4	3	10	7	4	5	53	0.4	0.30
		T	43	3	1	2	5	5	18	14	7	7	105	0.4	0.30
R00-R99	Symptoms, signs and ill-defined conditions, unknown causes	M	24	5	5	7	17	24	133	143	45	44	447	3.1	2.13
		F	8	5	3	5	8	8	61	59	36	75	268	1.9	1.10
		T	32	10	8	12	25	32	194	202	81	119	715	2.5	1.61
V01-Y98	External causes	M	2	2	4	10	61	82	365	308	129	121	1,084	7.4	5.04
		F	1	2	1	9	19	30	102	90	65	185	504	3.6	1.91
		T	3	4	5	19	80	112	467	398	194	306	1,588	5.5	3.46
	All causes	**M**	**107**	**17**	**16**	**24**	**86**	**122**	**832**	**2,672**	**5,237**	**5,499**	**14,612**	**100.0**	**66.12**
		F	**70**	**13**	**7**	**20**	**42**	**53**	**391**	**1,720**	**3,796**	**7,962**	**14,074**	**100.0**	**44.65**
	PROVINCIAL TOTAL	**T**	**177**	**30**	**23**	**44**	**128**	**175**	**1,223**	**4,392**	**9,033**	**13,461**	**28,686**	**100.0**	**54.36**

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Total percentage may not add up to 100 due to rounding. + Denotes the number of cases is less than five. Non-residents and gender unknown are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

HIGHLIGHTS TO TABLE 21

- There were 28,686 deaths in British Columbia in 2002, 460 more deaths than the 28,226 in 2001 (see Table 1). More than half of all deaths in 2002 (50.9%) were males (14,612 deaths), and 14,074 deaths were females. Over three quarters (78.4%) of all 2002 deaths were seniors (age 65 or older), and the oldest age group (80 years of age or more) accounted for almost five out of every ten deaths (46.9%).
- The Age Standardized Mortality Rate (ASMR) for all causes of death in 2002 was 54.36 per 10,000 standard population. The 2002 ASMR for males was 66.12 and for females it was 44.65.
- Circulatory system diseases were responsible for more than a third (33.8%) of all deaths in 2002 (9,698). It was the leading cause of death of the elderly aged 80 or older (5,880 deaths) who accounted for more than six out of every ten (60.6%) of the deaths from this cause. The ASMR for circulatory system diseases was 17.38 per 10,000 standard population.
- More than one in four deaths (28.4%) in 2002 was due to neoplasms, including cancer and non-malignant neoplasms (8,133 deaths). The total ASMR for neoplasms was 16.06 per 10,000 standard population.
- In 2002, one in ten deaths (10.4%) was due to respiratory system diseases (2,986), and the ASMR for respiratory system diseases was 5.30 per 10,000 standard population. These deaths, including pneumonia/influenza and chronic lung disease, tend to occur in older age groups. In 2002, 93.0% of deaths from respiratory system diseases were seniors (age 65 and over).
- External causes of death, also referred to as accidents and violence, claimed 1,588 lives in 2002, of which more than two thirds (68.3%) were males. External causes claimed many young lives, in contrast to the older age profile of deaths from natural causes. Unintentional injury/accident was the leading cause of death category in all age groups between 10 and 45 years of age.

TABLE 22
TWELVE LEADING CAUSES OF DEATH[1]
BRITISH COLUMBIA, 1997–2001 AND 2002

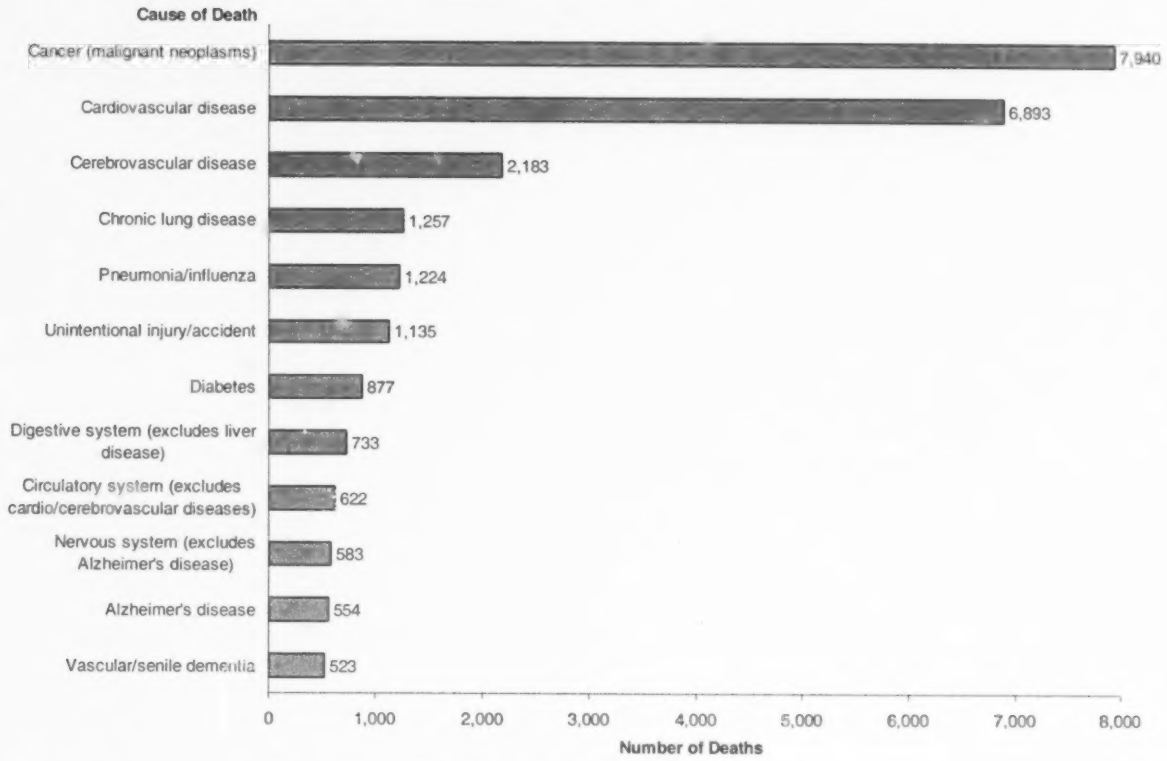
Cause of Death	ICD-10 (Codes)	1997–2001				2002			
		Number	Rank	ASMR	Rank	Number	Rank	ASMR	Rank
Cancer (malignant neoplasms)	C00-C97	37,784	1	16.28	1	7,940	1	15.70	1
Cardiovascular disease	I00-I51	35,205	2	14.30	2	6,893	2	12.39	2
Cerebrovascular disease	I60-I69	11,360	3	4.53	3	2,183	3	3.85	3
Chronic lung disease	J40-J44	5,868	6	2.40	6	1,257	4	2.31	5
Pneumonia/ influenza	J10-J18.1, J18.8-J18.9	6,499	5	2.54	5	1,224	5	2.07	6
Unintentional injury/accident	V01-X59, Y40-Y86, Y88	7,217	4	3.34	4	1,135	6	2.44	4
Diabetes	E10-E14	3,274	8	1.37	8	877	7	1.66	7
Digestive system (excludes liver disease)	K00-K67, K80-K93	3,530	7	1.44	7	733	8	1.30	8
Circulatory system (excludes cardio/ cerebrovascular diseases)	I70-I99	2,899	9	1.18	9	622	9	1.14	9
Nervous system (excludes Alzheimer's disease)	G00-G26, G31-G99	2,602	10	1.11	10	583	10	1.14	10
Alzheimer's disease	G30	2,232	11	0.87	11	554	11	0.94	11
Vascular/senile dementia	F01, F03	2,191	12	0.84	12	523	12	0.86	12
Other causes[2]		17,798		7.86		4,162		8.55	
TOTAL (All causes of death)		**138,459**		**58.07**		**28,686**		**54.36**	

Note: [1]Leading causes of death relate to categories most often queried at the Vital Statistics Agency.
[2]Other causes includes undetermined and pending.
ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
The number of deaths in 2002 determined the order in which the causes of death are presented.
Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time.
Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 15

TWELVE LEADING CAUSES OF DEATH

BRITISH COLUMBIA, 2002



Note: Leading causes of death relate to categories most often queried at the Vital Statistics Agency.

HIGHLIGHTS TO TABLE 22/FIGURE 15

- The twelve leading causes of death for British Columbia, presented in this table, are based on the categories most frequently queried at the Vital Statistics Agency. In recent years, cancers, cardiovascular disease and cerebrovascular disease have been the top three leading causes of death in the province, when ranked either by number of deaths or by age standardized mortality rates (ASMR). These three leading causes were responsible for almost sixty percent (59.3%) of the deaths in the province in 2002. The order of leading causes shown in this table is ranked by number of deaths.
- More than one in four deaths (27.7%) in the province in 2002 were due to cancer (7,940 deaths). The ASMR for cancer in 2002 was 15.70 deaths per 10,000 standard population, slightly lower than the five year (1997-2001) ASMR of 16.28.
- Cardiovascular disease was the second leading cause of death in 2002, accounting for almost one quarter (24.0%) of all deaths (6,893) with an ASMR of 12.39, a decrease from 14.30 for the 1997-2001 period.
- The third leading cause of death was cerebrovascular disease (2,183 deaths) causing one in thirteen deaths (7.6%). The 2002 ASMR for cerebrovascular disease (3.85) was slightly below the 1997-2001 ASMR (4.53).
- Chronic lung disease was the fourth leading cause of death in 2002 (1,257 deaths) with an ASMR of 2.31 deaths per 10,000 standard population. Chronic lung disease was the sixth leading cause of death in the 1997-2001 period with an ASMR of 2.40.
- Deaths from pneumonia/influenza were the fifth leading cause of death in 2002 (1,224 deaths). The 2002 ASMR for pneumonia/influenza was 2.07, slightly lower than the 1997-2001 ASMR of 2.54.

TABLE 23
LEADING CAUSES OF DEATH BY AGE AND GENDER
BRITISH COLUMBIA, 2002

Cause of Death	ICD-10 Code(s)	Males		Females		Total	
		Number	Percent	Number	Percent	Number	Percent
Under 1 Year Old							
1. Perinatal conditions	P00-P99	50	46.7	39	55.7	89	50.3
2. Congenital anomalies	Q00-Q99	24	22.4	19	27.1	43	24.3
3. Sudden infant death syndrome (SIDS)	R95	8	7.5	4	5.7	12	6.8
4. Other disorders of the nervous system	G00-G26,G31-G99	6	5.6	2	2.9	8	4.5
5. Unintentional injuries	V01-X59,Y40-Y86,Y88	2	1.9	1	1.4	3	1.7
Other causes		17	15.9	5	7.1	22	12.4
All causes		**107**	**100.0**	**70**	**100.0**	**177**	**100.0**
1-14 Years Old							
1. Unintentional injuries	V01-X59,Y40-Y86,Y88	14	24.6	10	25.0	24	24.7
2. Cancer (malignant neoplasms)	C00-C97	10	17.5	8	20.0	18	18.6
3. Congenital anomalies	Q00-Q99	5	8.8	1	2.5	6	6.2
4. Metabolic disorders	E70-E89	3	5.3	2	5.0	5	5.2
5. Suicide	X60-X84,Y870	2	3.5	2	5.0	4	4.1
Other causes		23	40.4	17	42.5	40	41.2
All causes		**57**	**100.0**	**40**	**100.0**	**97**	**100.0**
15-24 Years Old							
1. Unintentional injuries	V01-X59,Y40-Y86,Y88	105	50.5	36	37.9	141	46.5
2. Suicide	X60-X84,Y870	34	16.3	11	11.6	45	14.9
3. Cancer (malignant neoplasms)	C00-C97	9	4.3	11	11.6	20	6.6
4. Congenital anomalies	Q00-Q99	3	1.4	7	7.4	10	3.3
5. Other disorders of the nervous system	G00-G26,G31-G99	5	2.4	3	3.2	8	2.6
Other causes		52	25.0	27	28.4	79	26.1
All causes		**208**	**100.0**	**95**	**100.0**	**303**	**100.0**
25-44 Years Old							
1. Unintentional injuries	V01-X59,Y40-Y86,Y88	231	27.8	64	16.4	295	24.1
2. Cancer (malignant neoplasms)	C00-C97	98	11.8	115	29.4	213	17.4
3. Suicide	X60-X84,Y870	110	13.2	31	7.9	141	11.5
4. Certain infectious of the nervous system	XA00-B99	55	6.6	22	5.6	77	6.3
5. Cardiovascular disease	I00-I51	58	7.0	15	3.8	73	6.0
Other causes		280	33.7	144	36.8	424	34.7
All causes		**832**	**100.0**	**391**	**100.0**	**1,223**	**100.0**
45-64 Years Old							
1.Cancer (malignant neoplasms)	C00-C97	943	35.3	934	54.3	1,877	42.7
2. Cardiovascular disease	I00-I51	546	20.4	145	8.4	691	15.7
3. Unintentional injuries	V01-X59,Y40-Y86,Y88	190	7.1	53	3.1	243	5.5
4. Diseases of liver	K70-K77	113	4.2	58	3.4	171	3.9
5. Certain infectious and parasitic diseases	A00-B99	94	3.5	48	2.8	142	3.2
Other causes		786	29.4	482	28.0	1,268	28.9
All causes		**2,672**	**100.0**	**1,720**	**100.0**	**4,392**	**100.0**

(concluded on page 57)

TABLE 23 – *concluded*

LEADING CAUSES OF DEATH BY AGE AND GENDER

BRITISH COLUMBIA, 2002

Cause of Death	ICD-10 Code(s)	Males		Females		Total	
		Number	Percent	Number	Percent	Number	Percent
65–84 Years Old							
1. Cancer malignant neoplasms	C00-C97	2,516	33.5	2,083	33.3	4,599	33.4
2. Cardiovascular disease	I00-I51	1,934	25.8	1,399	22.4	3,333	24.2
3. Cerebrovascular diseases	I60-I69	492	6.6	539	8.6	1,031	7.5
4. Chronic Pulmonary Disease	J40-J44	413	5.5	351	5.6	764	5.6
5. Diabetes mellitus	E10-E14	290	3.9	214	3.4	504	3.7
Other causes		1,856	24.7	1,667	26.7	3,523	25.6
All causes		**7,501**	**100.0**	**6,253**	**100.0**	**13,754**	**100.0**
85 Years and Older							
1. Cardiovascular disease	I00-I51	1,041	32.2	1,749	31.8	2,790	31.9
2. Malignant neoplasms	C00-C97	532	16.4	681	12.4	1,213	13.9
3. Cerebrovascular diseases	I60-I69	304	9.4	681	12.4	985	11.3
4. Pneumonia/Influenza	J10-J18.1,J18.8-J18.9	287	8.9	434	7.9	721	8.2
5. Chronic Pulmonary Disease	J40-J44	202	6.2	194	3.5	396	4.5
Other causes		869	26.9	1,766	32.1	2,635	30.1
All causes		**3,235**	**100.0**	**5,505**	**100.0**	**8,740**	**100.0**

Note: [1]Other causes includes undetermined and pending.
*Includes alcoholic liver disease. (+) Denotes that this category was tied with other cause of death categories.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time.
Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

HIGHLIGHTS TO TABLE 23

- There were 177 infant deaths (under one year of age) in 2002, an increase from 162 deaths in 2001 (see Table 4). Perinatal conditions were the leading cause of infant deaths (89 deaths) and congenital anomalies were second leading cause of infant deaths (43). Twelve deaths from Sudden Infant Death Syndrome (SIDS) were recorded for 2002. This number may be amended in future reports as medical investigations are completed.
- There were 97 deaths of children in the 1-14 age group in 2002. Unintentional injury/accident was the leading cause of death in this age group, with 24 deaths (14 boys and 10 girls or 58.3% males). Cancer, the second leading cause of death for this age group, claimed 18 young lives, 10 boys and 8 girls.
- Unintentional injury/accidents were responsible for 46.5% (141 deaths) of the 303 deaths in the 15-24 year age group. The second leading cause of death in this age group was suicide, which claimed 45 lives or almost 15 percent of the total deaths. There were 20 cancer deaths making this the third leading cause of death in this age group and 10 deaths from congenital anomalies (fourth place).
- In the 25-44 year age group, there were 1,223 deaths in 2002. For men in this age group, the leading cause of death was unintentional injury/accident (231 deaths), followed by suicide with 110 deaths and cancer with 98 deaths. For women in this age group, cancer was the leading cause of death (115 deaths), followed by unintentional injury/accident (64 deaths).
- The leading causes of death in the 45-64 year age group were cancer (1,877 deaths), cardiovascular disease (691), and unintentional injury/accidents (243). There were 2,672 male deaths and 1,720 female deaths in this age group. More than a third of the male deaths (35.3%) and more than half (54.3%) of female deaths in this age group were due to cancer (943 males and 934 female deaths).
- In 2002, cancer, cardiovascular disease, and cerebrovascular disease were the leading causes of death for both men and women in the 65-84 year age group. In total these causes account for two thirds (65.1%) of all of the deaths in this age group
- The leading causes of death in the 85 and over age group were cardiovascular disease, cancer and cerebrovascular disease. Deaths from cardiovascular diseases (2,790) accounted for almost a third (31.9%) of the 8,740 deaths in this age group.

Vital Statistics Information Box

Diabetes and Chronic Disease Management

Diabetes mortality has been increasing over the past decade. Both the numbers of deaths and the age-standardized mortality rates (ASMRs) have risen. The Potential Years of Life Lost Standardized Rates (PYLLSR) have also increased, indicating the growing impact of this disease on premature deaths.

B.C. Diabetes Mortality, ASMRs and Premature Mortality

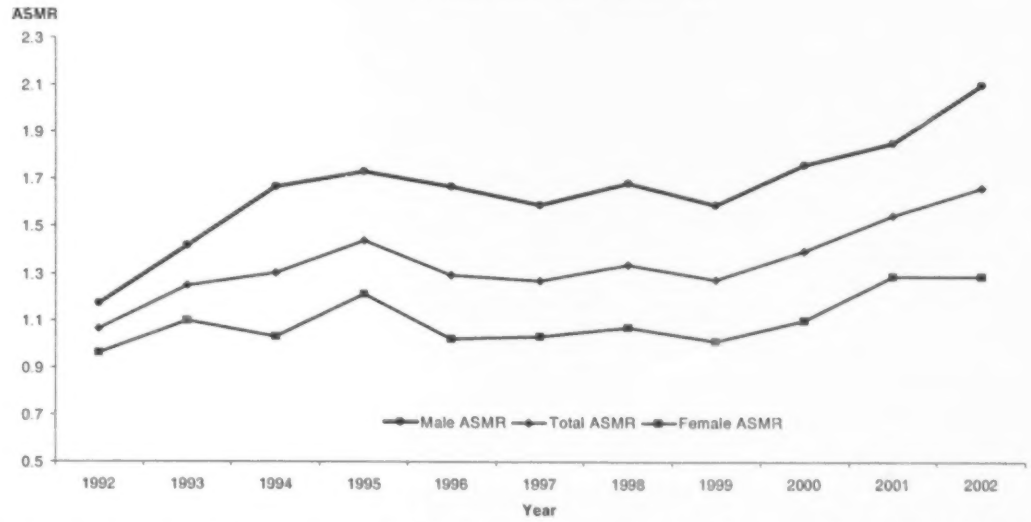
British Columbia, 1992-2002

Year	Deaths	ASMR	Deaths (<75 yrs)	PYLLSR
1992	407	1.06	169	0.56
1993	491	1.25	204	0.54
1994	529	1.30	214	0.69
1995	604	1.44	255	0.74
1996	560	1.29	230	0.72
1997	569	1.27	235	0.65
1998	618	1.34	251	0.68
1999	603	1.27	246	0.69
2000	693	1.40	268	0.74
2001	791	1.55	313	0.83
2002	877	1.66	331	0.83

Diabetes mortality rates are consistently higher for males than for females:

Diabetes Mellitus ASMR by Gender and Total

British Columbia, 1992-2002



Some chronic conditions, such as arthritis, have undesirable effects on quality of life, with relatively little impact on mortality rates in and of themselves. For example renal failure is usually caused by other disease processes but is seldom selected as the underlying cause of death. A notable exception to this is diabetes. As well as being a leading cause of death, diabetes is also a leading cause of disability. It can result in serious complications, such as heart disease, renal failure, and limb amputations. Implementation of ICD-10 in 2000, allowed complications associated with diabetes mortality to be easily identified. The tables that follow show the number of deaths from diabetes with complications where the complications were directly involved in the individuals' demise.

(concluded on page 69)

Vital Statistics Information Box

(continued from page 68)

Diabetes Mortality 2000-2002 by Gender and Selected Complications

British Columbia, 2000-2002

RENAL COMPLICATIONS

	Code	2000	2001	2002
F	E102	5	4	2
M	E102	3	4	6
F	E112	2	5	13
M	E112	7	4	18
F	E142	44	45	44
M	E142	51	47	38
Total		**112**	**109**	**121**

PERIPHERAL VASCULAR COMPLICATIONS

	Code	2000	2001	2002
F	E105	2	1	4
M	E105	6	6	6
F	E115	1	2	5
M	E115	5	3	7
F	E145	32	33	34
M	E145	45	40	47
Total		**91**	**85**	**103**

OTHER SPEC. COMPLICATIONS (incl. HEART DIS.)

	Code	2000	2001	2002
F	E106	7	17	6
M	E106	8	17	8
F	E116	15	20	16
M	E116	23	23	29
F	E146	79	142	104
M	E146	83	124	126
Total		**215**	**343**	**289**

MULTIPLE COMPLICATIONS

	Code	2000	2001	2002
F	E107	4	7	1
M	E107	4	4	5
F	E117	4	2	9
M	E117	1	3	11
F	E147	26	27	42
M	E147	24	35	42
Total		**63**	**78**	**110**

E102	Insulin-dependent diabetes mellitus	with renal complications
E105		with peripheral circulatory complications
E106		with other specified complications
E107		with multiple complications
E112	Non-insulin-dependent diabetes mellitus	with renal complications
E115		with peripheral circulatory complications
E116		with other specified complications
E117		with multiple complications
E142	Unspecified diabetes mellitus	with renal complications
E145		with peripheral circulatory complications
E146		with other specified complications
E147		with multiple complications

Good management of diabetes and other chronic conditions can significantly reduce the incidence of complications and improve the longevity of affected individuals. One of the major new initiatives for the provincial Ministry of Health Services is *Chronic Disease Management* (CDM), a systematic approach to improving health care for people with chronic disease. Through consultation with BC physicians, diabetes, hypertension, congestive heart failure, asthma, chronic lung disease, depression, renal failure, liver disease, and arthritis/osteoarthritis were identified as priorities for CDM development.

TABLE 24
INFANT MORTALITY BY AGE OF MOTHER AND BIRTH WEIGHT
BRITISH COLUMBIA, 2002

Age of Mother	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	9	2	6	-	17	9.6	10.61
20-24	16	3	12	-	31	17.5	5.04
25-29	24	8	13	-	45	25.4	4.00
30-34	17	6	29	-	52	29.4	4.04
35-39	16	1	9	-	26	14.7	3.91
40+	3	1	2	-	6	3.4	4.32
N.S.	-	-	-	-	-	-	-
TOTAL	**85**	**21**	**71**	**-**	**177**	**100.0**	**4.44**
Percent	**48.0**	**11.9**	**40.1**	**-**	**100.0**		
Rate	**230.35**	**12.12**	**1.88**	**-**	**4.44**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
+ Denotes the number of cases is less than five.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.
N.S. – Not stated.

HIGHLIGHTS TO TABLE 24

- There were 177 infant deaths (under one year of age) in 2002, for an infant mortality rate of 4.44 infant deaths per 1,000 live births.
- In 2002, the highest infant mortality rate by mother's age shown in this table was 10.61 deaths per 1,000 live births for mothers aged <20 years of age and the lowest rate was 3.91 for mothers aged 35-39.
- Low birth weight (less than 2,500 grams) and very low birth weight (less than 1,500 grams) are risk factors for infant mortality. Almost 6 out of 10 (59.9%) of the infants who died in 2002 had low birth weight (106 infant deaths), and almost half (48.0%) had very low birth weight (85).
- For births with very low birth weight (less than 1,500 grams), the infant mortality rate was 230.35 per 1,000 live births, almost one in four. The mortality rate decreased significantly with increased birth weight; there were 12.12 infant deaths per 1,000 live births with birth weight between 1,500 and 2,499 grams, and only 1.88 infant deaths for every 1,000 live births with normal birth weight (2,500 grams or more).

TABLE 25
INFANT MORTALITY BY GESTATIONAL AGE AND BIRTH WEIGHT
BRITISH COLUMBIA, 2002

Gestational Age (In Weeks)	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	2	-	-	-	2	1.1	+
20-27	75	-	1	-	76	42.9	439.31
28-36	7	15	9	-	31	17.5	11.76
37-41	1	6	59	-	66	37.3	1.80
42+	-	-	2	-	2	1.1	+
N.S.	-	-	-	-	-	-	+
TOTAL	**85**	**21**	**71**	**-**	**177**	**100.0**	**4.44**
Percent	**48.0**	**11.9**	**40.1**	**-**	**100.0**		
Rate	**230.35**	**12.12**	**1.88**	**-**	**4.44**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
+ Denotes the number of cases is less than five.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.
N.S. – Not stated.

HIGHLIGHTS TO TABLE 25

- Prematurity (less than 37 weeks of gestation) and low birth weight (less than 2,500 grams at birth) are both important risk factors for infant mortality. About two thirds of infant deaths were premature (61.6%) or had low birth weight (59.9%), and 55.9% were both premature and low birth weight.
- In 2002, of the 177 infant deaths in the province, 66 were term (gestational age 37-41 weeks), 2 were post-term (42 weeks or more) and 109 were premature (gestational age less than 37 weeks). Among term babies, there were 1.80 infant deaths per 1,000 live births. The infant mortality rate rose dramatically for premature infants; there were 11.76 infant deaths per 1,000 live births with a gestational age of 28 to 36 weeks, and 439.31 deaths per 1,000 live births with 20 to 27 weeks of gestation.
- Of the 109 infant deaths that were premature, 99 were also low birth weight babies, and 77 of these were both extremely premature (gestational age of less than 28 weeks at birth) and very low birth weight (less than 1,500 grams).

INFANT MORTALITY BY LOCAL HEALTH AREA

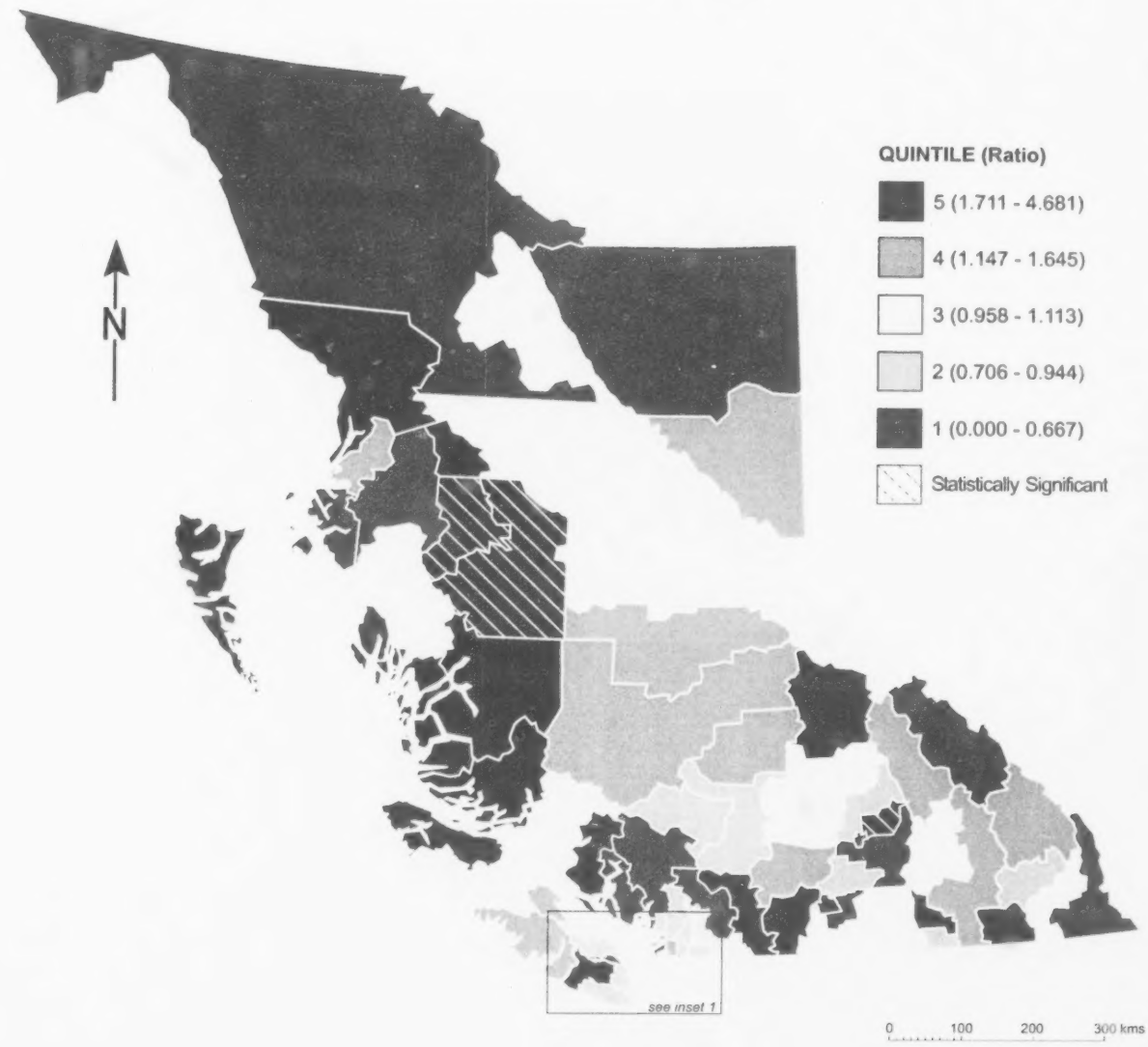
Local Health Area		1997–2001 Observed Deaths	Ratio (p)	Rate	2002 Age at Death (in Days) 0–6	0–27	28–364	Total Number	Rate
001	Fernie	1	0.37	1.48	-	-	-	-	-
002	Cranbrook	5	1.00	4.04	-	-	-	-	-
003	Kimberley	1	0.78	3.13	-	-	-	-	-
004	Windermere	2	1.30	5.25	-	-	-	-	-
005	Creston	5	1.88	7.58	-	-	-	-	-
006/007	Kootenay Lake/Nelson	6	1.18	4.75	-	-	-	-	-
009	Castlegar	4	1.72	6.92	-	-	-	-	-
010	Arrow Lakes	1	1.02	4.12	-	-	-	-	-
011	Trail	3	0.92	3.69	-	-	2	2	16.67
012/013	Grand Forks/Kettle Valley	2	1.06	4.26	2	2	-	2	22.47
014	Southern Okanagan	3	1.01	4.06	-	-	-	-	-
015	Penticton	2	0.30	1.22	-	-	2	2	6.87
016	Keremeos	1	1.09	4.39	1	1	-	1	25.64
017	Princeton	2	2.88	11.63	-	-	-	-	-
018	Golden	1	0.66	2.67	-	-	-	-	-
019	Revelstoke	2	1.17	4.71	-	-	-	-	-
020	Salmon Arm	4	0.84	3.38	1	1	-	1	4.78
021	Armstrong-Spallumcheen	1	0.59	2.37	-	-	-	-	-
022	Vernon	6	0.55	2.24	1	1	-	1	1.94
023	Central Okanagan	25	0.90	3.63	4	4	1	5	3.85
024	Kamloops	19	0.99	3.98	3	3	4	7	8.14
025	100 Mile House	4	1.49	6.02	-	-	-	-	-
026	North Thompson	2	1.92	7.72	-	-	-	-	-
027	Cariboo-Chilcotin	9	1.24	5.02	4	4	1	5	17.30
028	Quesnel	9	1.57	6.34	-	-	-	-	-
029	Lillooet	1	0.79	3.18	-	-	-	-	-
030	South Cariboo	1	0.71	2.87	-	-	-	-	-
031	Merritt	3	1.20	4.83	-	-	-	-	-
032	Hope	3	1.83	7.39	1	1	-	1	14.71
033	Chilliwack	18	1.10	4.42	-	-	1	1	1.27
034	Abbotsford	28	0.86	3.48	3	5	4	9	5.75
035	Langley	18	0.71	2.88	4	4	1	5	4.13
036	Surrey	117	1.18	4.76	13	17	9	26	5.30
037	Delta	13	0.62	2.48	1	3	1	4	4.01
038	Richmond	37	1.15	4.62	5	5	1	6	3.79
040	New Westminster	7	0.54	2.18	2	3	-	3	4.60
041	Burnaby	49	1.21	4.86	2	2	1	3	1.41
042	Maple Ridge	13	0.73	2.94	4	6	-	6	7.06
043	Coquitlam	32	0.73	2.92	-	1	5	6	2.93
044	North Vancouver	21	0.78	3.15	2	3	-	3	2.38
045	West Vancouver-Bowen Is.	3	0.49	1.97	-	-	-	-	-
046	Sunshine Coast	1	0.23	0.92	-	-	-	-	-
047	Powell River	6	1.73	6.99	-	-	-	-	-
048	Howe Sound	5	0.62	2.49	1	1	-	1	2.68
049	Bella Coola Valley	4	4.10 +	16.53	1	1	-	1	18.87
050	Queen Charlotte	4	2.76	11.11	-	-	-	-	-
051	Snow Country	1	4.68	18.87	-	-	-	-	-
052	Prince Rupert	3	0.62	2.49	1	2	-	2	9.17
053	Upper Skeena	3	1.86	7.50	-	-	-	-	-
054	Smithers	11	2.08 *	8.40	2	2	-	2	9.09
055/093	Burns Lake/Eutsuk	6	2.91 *	11.74	-	-	-	-	-
056	Nechako	5	0.98	3.93	1	1	-	1	4.17
057	Prince George	23	0.96	3.89	1	2	2	4	3.85
059	Peace River South	8	1.22	4.94	2	3	-	3	10.24
060	Peace River North	5	0.52	2.10	-	1	-	1	2.18
061	Greater Victoria	36	1.01	4.08	5	6	7	13	7.93
062	Sooke	11	0.94	3.80	1	1	-	1	1.75
063	Saanich	6	0.73	2.94	2	2	-	2	4.83
064	Gulf Islands	2	1.04	4.19	-	-	-	-	-
065	Cowichan	8	0.75	3.04	-	1	1	2	4.32
066	Lake Cowichan	2	1.71	6.90	-	-	-	-	-
067	Ladysmith	1	0.32	1.30	2	2	-	2	14.39
068	Nanaimo	15	0.90	3.63	2	5	1	6	7.73
069	Qualicum	5	0.96	3.86	-	-	-	-	-
070	Alberni	8	1.24	5.00	-	-	-	-	-
071	Courtenay	17	1.64	6.63	1	2	-	2	4.41
072/084	Campbell River/V.I. West	9	0.99	4.00	2	2	1	3	7.46
075	Mission	9	1.03	4.16	-	-	1	1	2.38
076	Agassiz-Harrison	1	0.62	2.50	-	-	-	-	-
077	Summerland	3	1.88	7.58	-	-	-	-	-
078	Enderby	5	3.52 *	14.20	-	-	-	-	-
080	Kitimat	3	1.11	4.48	-	1	-	1	7.94
081	Fort Nelson	2	1.02	4.12	-	-	-	-	-
083	Central Coast	2	4.07	16.39	1	1	-	1	47.62
085	Vancouver Island North	8	2.16	8.71	-	-	1	1	6.37
087/094	Stikine/Telegraph Creek	-	-	-	-	-	-	-	-
088	Terrace	3	0.50	2.03	2	2	-	2	7.66
092	Nisga'a	1	1.55	6.25	1	1	-	1	31.25
161	Vancouver City Centre	9	0.67	2.69	2	2	-	2	2.51
162	Vancouver Downtown E. Side	14	1.43	5.75	1	1	1	2	4.49
163	Vancouver North East	30	1.27	5.12	5	6	2	8	7.11
164	Vancouver West Side	14	0.71	2.85	5	6	2	8	7.21
165	Vancouver Midtown	34	1.54 *	6.21	1	1	1	2	2.03
166	Vancouver South	19	0.72	2.89	1	2	1	3	2.47
039	**VANCOUVER TOTAL**	**120**	**1.04**	**4.19**	**15**	**18**	**7**	**25**	**4.40**
	N.S.	-			-	-	-	-	
	PROVINCIAL TOTAL	**846**	**1.00**	**4.03**	**96**	**123**	**54**	**177**	**4.44**

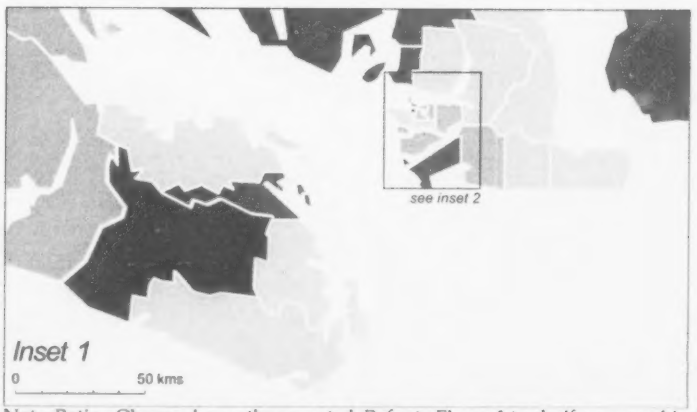
Note: *Statistical testing indicates that observed deaths are signficantly different from the expected deaths ($p<0.05$, two tailed). +Denotes significance based on less than five deaths. Rate per 1,000 live births in the specified Local Health Area. Ratio – observed over the expected deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents and gender unknown are excluded. N.S. – Not stated.

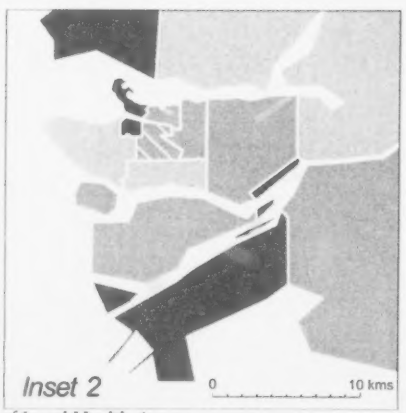
FIGURE 16

INFANT MORTALITY BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997-2001







Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 26/FIGURE 16

- There were 4.44 infant deaths per 1,000 live births in 2002. This infant mortality rate was above the rate for the 1997-2001 period (4.03).
- Only thirteen Local Health Areas (LHAs) had five or more infant deaths in 2002, and 35 LHAs had no infant deaths in 2002. The highest infant mortality rate in 2002 (based on five or more infant deaths) was 17.30 in Cariboo-Chilcotin LHA (5 infant deaths), and the lowest was 2.93 in Coquitlam LHA (6 infant deaths).
- There were four LHAs with infant mortality ratio that were statistically significant and high in 1997-2001, based on at least five deaths (with number of deaths in parentheses, and rate):

078	Enderby	3.52	(5)	14.20
055/093	Burns Lake/Eutsuk	2.91	(6)	11.74
054	Smithers	2.08	(11)	8.40
165	Vancouver Midtown	1.54	(34)	6.21

- There were no LHAs with infant mortality ratios that were statistically significant and low in 1997-2001.
- Two LHAs, 087 Stikine and 094 Telegraph Creek had no infant deaths in 1997-2001.

Vital Statistics Information Box

Natural Environmental Deaths

On average, 22 people are killed each year in British Columbia due to natural occurrences such as avalanches, storms, and extreme temperatures. There were 369 deaths due to these 'forces of nature' between 1986 and 2002. Not included here are deaths that involved a motor or water transport vehicle or deaths where hypothermia was due to water submersion/drowning. In addition, the cases were all manually reviewed to exclude cases where the cause of death was not a natural occurrence (ex. Death due to a domestic dog attack).

Natural Environmental Deaths

BRITISH COLUMBIA, 1986-2002

Cause of Death[1]	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Forest Fires	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Excessive Heat	2	1	-	-	1	1	1	1	-	1	-	-	1	3	1	-	1	14
Excessive Cold	9	6	7	3	5	13	5	8	9	6	11	9	5	4	5	12	9	126
Exposure/ Starvation	3	5	3	4	8	4	5	2	7	4	4	3	5	4	-	1	-	62
Wild Animals	2	2	1	1	-	3	2	-	2	2	3	2	1	2	1	1	2	27
Lightning	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	1	1	5
Storms/Floods	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3
Avalanche/ Landslide	9	8	4	4	11	11	6	4	6	7	9	11	15	5	2	10	9	131
Total	**25**	**23**	**16**	**13**	**25**	**33**	**21**	**15**	**24**	**20**	**27**	**26**	**27**	**18**	**9**	**25**	**22**	**369**

Avalanches/Landslides caused the greatest number of deaths in the 17-year period, accounting for 131 deaths (36% of natural environmental deaths). Single snow avalanches can be extremely destructive, often killing numerous people. The worst snow avalanche in British Columbia's history occurred in 1910, when 62 workmen were killed at Roger's Pass while working on the Canadian Pacific Railroad. Excessive Cold accounted for the second largest number of deaths with 126 (34% of natural environmental deaths). Excessive Cold and Avalanches/Landslides were the only two categories to have at least one death every year since 1986.

The next largest category of death was Exposure/Starvation with 62 deaths. In many cases, deaths due to Excessive Cold and deaths due to Exposure are very similar, as they both often identify hypothermia as the immediate cause of death. The distinction between these two categories is dependant on the implied intention of the certifier (coroner) as to whether or not the primary element to which the deceased was exposed was, or was not, Excessive Cold. If considered together, these two groups would easily comprise the largest category of natural environmental deaths, with 188 deaths (51%).

Another substantial cause of natural environmental deaths was deaths due to Wild Animals. This category includes attacks by bears, cougars, bees and wasps. Of the 27 wild animal deaths, 12 were due to bear attacks, 12 were due to insects, and 3 were due to cougar attacks.

[1]Notes: Forest Fires: X01
Excessive Heat: X30, X32
Excessive Cold: X31
Exposure/Starvation: X39, X53-X54
Wild Animals: W53, W55-W59, W64, X20-X29
Lightning: X33
Storms/Floods: X37-X38
Avalanche/Landslide: X34-X36

TABLE 27
SELECTED CAUSES OF INFANT DEATHS AND STILLBIRTHS
BRITISH COLUMBIA, 2002

Cause of Death	ICD-10 Code(s)	Infant Deaths – Age Group (in Days) <7	7–27	28–364	Total	Rate [1]	Stillbirths Number	Rate [2]
Congenital anomalies								
- of the nervous system	Q00-Q07	2	-	2	4	1.00	3	0.75
- of the eye, ear, face & neck	Q10-Q18	-	-	-	-	-	-	-
- of the heart and circulatory system	Q20-Q28	5	8	6	19	4.76	6	1.49
- of the respiratory system	Q30-Q34	1	1	1	3	0.75	-	-
- of the digestive system	Q35-Q45	-	-	-	-	-	-	-
- of the genital organs	Q50-Q56	-	-	-	-	-	-	-
- of the urinary system	Q60-Q64	1	-	-	1	0.25	2	0.50
- of the musculoskeletal system	Q65-Q79	3	1	-	4	1.00	-	-
Other and multiple system syndromes	Q80-Q89	3	-	1	4	1.00	1	0.25
Chromosomal anomalies	Q90-Q99	7	-	1	8	2.01	13	3.23
Total deaths due to congenital anomalies	**Q00-Q99**	**22**	**10**	**11**	**43**	**10.78**	**25**	**6.22**
Perinatal conditions								
Infant affected by maternal factors	P00-P04	29	1	2	32	8.02	106	26.38
Premature/postmature and fetal growth disorders	P05-P08	17	-	2	19	4.76	6	1.49
Birth trauma	P10-P15	-	-	-	-	-	-	-
Respiratory and cardiovascular disorders	P20-P29	11	-	1	12	3.01	11	2.74
Infections specific to the perinatal period	P35-P39	4	2	-	6	1.50	1	0.25
Hemorrhage and hematological disorders	P50-P61	4	4	-	8	2.01	1	0.25
Transitory endocrine and metabolic disorders	P70-P74	-	-	-	-	-	-	-
Digestive system disorders of fetus and newborn	P75-P78	1	-	-	1	0.25	-	-
Other disorders originating in the perinatal period	P80-P94, P96	8	3	-	11	2.76	94	23.39
Fetal death of unknown cause	P95	-	-	-	-	-	52	12.94
Total deaths due to perinatal conditions	**P00-P96**	**74**	**10**	**5**	**89**	**22.31**	271	67.43
Pneumonia/influenza	J10-J18.1, J18.8-J18.9	-	-	-	-	-	-	
Sudden infant death syndrome (SIDS)[3]	R95	-	1	11	12	3.01	-	
Other causes[3]		-	6	27	33	8.27	-	
TOTAL		**96**	**27**	**54**	**177**	**44.37**	**296**	**73.65**

Note: [1]Rate per 10,000 live births.
[2]Rate per 10,000 total births (live births plus stillbirths).
[3] Some of the infant deaths that were still under investigation (ICD-10 code R99) may later be identified as SIDS.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 27

- There were 177 infant deaths (under one year of age) an increase from the 162 infant deaths in 2001. There were 296 stillbirths in 2002 up 15 from the previous year
- In 2002, perinatal conditions were the cause of death for more than half (50.3%) of the infant deaths (89) and over ninety per cent (91.6%) of the stillbirths (271). This cause includes the stillbirths with undetermined cause of death (52). The infant mortality rate for perinatal conditions was 22.31 deaths per 10,000 live births, and the stillbirth rate for this cause was 67.43 per 10,000 total births.
- Congenital anomalies were responsible for about one quarter (24.3%) of infant deaths (43) and about one out of twelve (8.4%) stillbirths (25) in 2002. The infant mortality rate for congenital anomalies was 10.78 deaths per 10,000 live births, and the stillbirth rate was 6.22 per 10,000 total births.
- Of the 96 deaths in the early neonatal period (age at death under 7 days), over three quarters (77.1%) were due to perinatal conditions (74 deaths). The most common of these were infant affected by maternal factors (29), premature/post mature and fetal growth disorders (17) and respiratory and cardiovascular disorders (11).
- There were 54 infant deaths in the post neonatal period (28 to 364 days after birth) including 11 due to Sudden Infant Death Syndrome (SIDS). It should be noted that some of the infant deaths that are still under investigation may later be identified as SIDS.

Vital Statistics Information Box

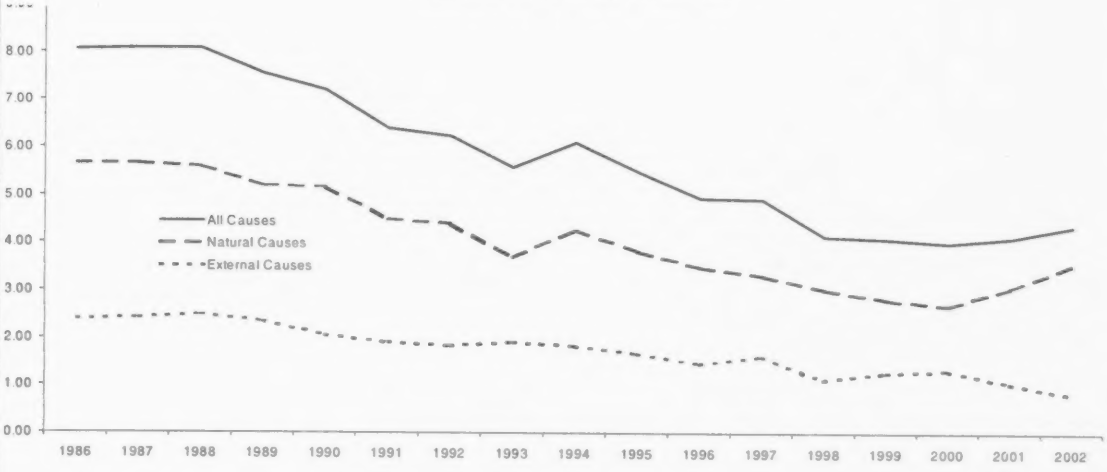
Trends in Child Mortality (Under 19 Years of Age) in British Columbia

There were a total of 8,307 child deaths (under 19 years of age) in B.C. over the seventeen year period 1986–2002. This particular age group is used by the Ministry of Children and Family Development and other groups dealing with children under the legal age. The age standardized mortality rates for children declined significantly in this period from 8.06 deaths per 100,000 standard population under 19 years of age in 1986, to 4.37 in 2002.

More than two thirds of all child deaths from 1986 to 2002 were due to natural causes. The age-specific mortality rates for natural causes showed an overall decreasing trend over the seventeen years and is currently about forty percent of the 1986 rate. External causes of death (accidents, homicides and suicides) exhibited a decline in age-specific mortality of about two thirds in this period.

Age Standardized Mortality Rates (under 19 years of age)

British Columbia, 1986–2002



Child Deaths and Age Standardized Mortality Rates (under 19 years of age)

British Columbia, 1986–2002

Cause of Death	Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Natural Causes	Deaths	430	435	430	411	425	374	375	315	368	332	310	285	250	230	215	242	280	5,707
	Rate	5.67	5.67	5.60	5.18	5.16	4.51	4.42	3.70	4.28	3.84	3.50	3.32	3.02	2.81	2.68	3.08	3.56	
External Causes	Deaths	192	194	200	191	169	159	157	167	165	156	139	157	110	126	132	104	81	2,599
	Rate	2.39	2.41	2.49	2.36	2.06	1.90	1.83	1.91	1.83	1.67	1.44	1.60	1.12	1.27	1.33	1.05	0.81	
All Causes	Deaths	622	629	630	602	594	533	532	482	533	488	449	442	360	357	347	346	361	8,307
	Rate	8.06	8.08	8.09	7.54	7.22	6.41	6.25	5.60	6.11	5.51	4.95	4.92	4.14	4.10	4.00	4.12	4.37	

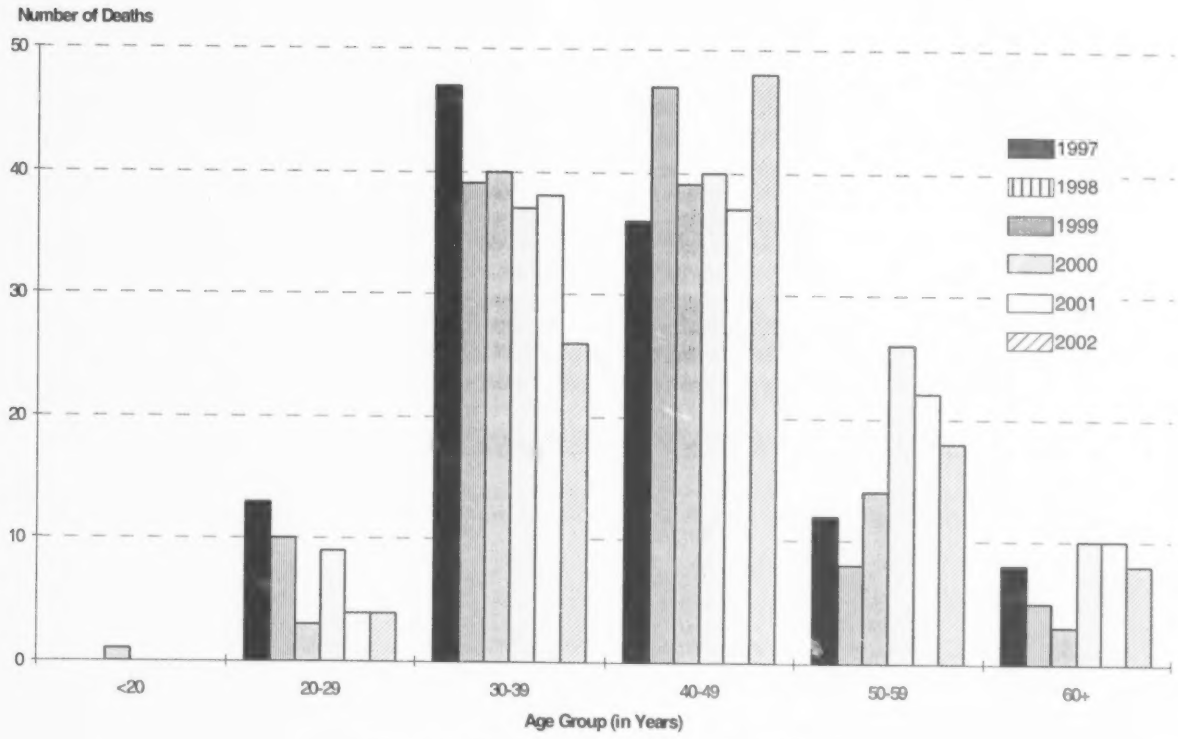
Notes: Age standardized mortality rates (ASMR) – deaths per 100,000 standard population in the 0–18 age groups.
Natural causes includes deaths due to unknown causes.

TABLE 28
DEATHS DUE TO HIV DISEASE BY GENDER AND AGE GROUP
BRITISH COLUMBIA, 1987–2002

Year of Death	Gender	Age at Death (in Years) <20	20–29	30–39	40–49	50–59	60+	Total
1987	M	-	12	39	25	5	4	85
	F	-	-	-	2	-	1	3
	T	-	12	39	27	5	5	88
	Percent	-	13.6	44.3	30.7	5.7	5.7	100.0
1988	M	-	15	39	37	12	7	110
	F	1	1	-	1	1	-	4
	T	1	16	39	38	13	7	114
	Percent	0.9	14.0	34.2	33.3	11.4	6.1	100.0
1989	M	-	11	60	48	10	4	133
	F	1	2	1	-	1	-	5
	T	1	13	61	48	11	4	138
	Percent	0.7	9.4	44.2	34.8	8.0	2.9	100.0
1990	M	-	17	71	73	18	6	185
	F	-	1	-	1	1	-	3
	T	-	18	71	74	19	6	188
	Percent	-	9.6	37.8	39.4	10.1	3.2	100.0
1991	M	-	14	79	56	23	7	179
	F	-	-	1	-	-	1	2
	T	-	14	80	56	23	8	181
	Percent	-	7.7	44.2	30.9	12.7	4.4	100.0
1992	M	-	28	101	89	22	5	245
	F	-	1	3	2	-	-	6
	T	-	29	104	91	22	5	251
	Percent	-	11.6	41.4	36.3	8.8	2.0	100.0
1993	M	-	28	114	95	34	15	286
	F	-	3	8	2	1	1	15
	T	-	31	122	97	35	16	301
	Percent	-	10.3	40.5	32.2	11.6	5.3	100.0
1994	M	-	19	147	101	29	12	308
	F	2	5	10	2	2	2	23
	T	2	24	157	103	31	14	331
	Percent	0.6	7.3	47.4	31.1	9.4	4.2	100.0
1995	M	-	17	116	103	31	9	276
	F	-	6	7	4	1	1	19
	T	-	23	123	107	32	10	295
	Percent	-	7.8	41.7	36.3	10.8	3.4	100.0
1996	M	3	9	106	73	34	10	235
	F	-	4	6	6	-	1	17
	T	3	13	112	79	34	11	252
	Percent	1.2	5.2	44.4	31.3	13.5	4.4	100.0
1997	M	-	11	40	32	11	6	100
	F	-	2	7	4	1	2	16
	T	-	13	47	36	12	8	116
	Percent	-	11.2	40.5	31.0	10.3	6.9	100.0
1998	M	-	6	31	44	7	4	92
	F	-	4	8	3	1	1	17
	T	-	10	39	47	8	5	109
	Percent	-	9.2	35.8	43.1	7.3	4.6	100.0
1999	M	1	3	36	32	13	3	88
	F	-	-	4	7	1	-	12
	T	1	3	40	39	14	3	100
	Percent	1.0	3.0	40.0	39.0	14.0	3.0	100.0
2000	M	-	5	31	31	23	8	98
	F	-	4	6	9	3	2	24
	T	-	9	37	40	26	10	122
	Percent	-	7.4	30.3	32.8	21.3	8.2	100.0
2001	M	-	-	30	33	19	9	91
	F	-	4	8	4	3	1	20
	T	-	4	38	37	22	10	111
	Percent	-	3.6	34.2	33.3	19.8	9.0	100.0
2002	M	-	3	20	35	15	8	81
	F	-	1	6	13	3	-	23
	T	-	4	26	48	18	8	104
	Percent	-	-	25.0	46.2	17.3	7.7	100.0
1987-2002	**M**	**4**	**198**	**1,060**	**907**	**306**	**117**	**2,592**
	F	**4**	**38**	**75**	**60**	**19**	**13**	**209**
	T	**8**	**236**	**1,135**	**967**	**325**	**130**	**2,801**
	Percent	**0.3**	**8.4**	**40.5**	**34.5**	**11.6**	**4.6**	**100.0**

Note: HIV Disease – ICD-10 codes B20–B24.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

FIGURE 17
DEATHS DUE TO HIV DISEASE BY AGE GROUP
BRITISH COLUMBIA, 1997–2002



HIGHLIGHTS TO TABLE 28/FIGURE 17

- There were 104 deaths from HIV disease in 2002, a decrease from 111 deaths in 2001. Since 1987, there have been 2,801 HIV disease deaths in the province.
- The number of deaths from HIV disease peaked at 331 in 1994. The largest decrease occurred when the number of HIV disease deaths dropped from 252 in 1996 to 116 in 1997.
- Over the 15 year period from 1987-2002, the majority of all HIV disease deaths (92.5%) were males (2,592 deaths); only 7.5% (209 deaths) were female. The largest number of female deaths due to HIV disease deaths (24) occurred in 2000.
- For the 1987-2002 period, out of 100 deaths from HIV disease, approximately:
  - 8 were in the 20-29 year age group (236)
  - 41 were in the 30-39 year age group (1,135)
  - 35 were in the 40-49 year age group (967)
  - 12 were in the 50-59 year age group (325)
  - 5 were at least 60 years of age (130).
- There were only 8 deaths from HIV disease in 1987-2002 to children and teens (age less than 20 years old).
- Figure 17 shows the number of deaths due to HIV disease by age group for 1997-2002. Deaths in the 30-39 year age group decreased from 1997-2002, while those for the 40-49 year olds were higher in 2002 than in earlier years. Although the number of HIV disease deaths was small for the 20-29, 50-59, and 60+ age groups, these age groups showed a generally decreasing trend in recent years.

TABLE 29

DEATHS DUE TO HIV DISEASE BY HEALTH SERVICE DELIVERY AREA

BRITISH COLUMBIA, 1987–2002

Health Service Delivery Area	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1987–2002 Number	Percent	Rate
11 East Kootenay	-	-	-	-	1	-	-	-	1	-	2	-	-	-	1	-	5	0.2	0.41
12 Kootenay Boundary	1	-	-	2	-	-	1	1	3	2	-	1	1	-	-	2	14	0.5	1.13
13 Okanagan	3	3	1	1	1	9	9	6	9	7	2	4	2	3	3	3	66	2.4	1.51
14 Thompson/Cariboo	2	-	-	3	3	3	4	3	-	3	2	2	2	2	6	2	37	1.3	1.15
21 Fraser Valley -		-	4	2	1	4	6	7	6	7	1	5	3	3	2	4	55	2.0	1.61
22 Simon Fraser	8	8	16	16	14	15	22	25	21	15	8	6	6	11	8	10	209	7.5	2.82
23 South Fraser	2	4	8	6	10	14	12	18	17	23	6	4	11	7	11	10	163	5.8	2.01
31 Richmond	5	4	-	6	6	5	1	6	4	4	5	2	2	1	1	-	52	1.9	2.22
32 Vancouver	53	72	86	124	109	149	197	203	182	145	64	64	52	73	60	60	1,693	60.4	20.06
33 North Shore/ Coast Garibaldi	6	8	7	11	9	14	16	15	12	11	7	5	5	3	3	2	134	4.8	3.43
41 South Vancouver Island	6	7	14	12	16	23	23	29	18	21	11	10	13	7	10	4	224	8.0	3.76
42 Central Vancouver Island	2	-	2	2	4	14	4	12	15	6	3	3	3	9	4	3	86	3.1	2.51
43 North Vancouver Island	-	4	-	1	1	-	3	2	-	1	1	-	-	3	1	-	17	0.6	1.91
51 North West	-	-	-	1	-	1	1	-	2	1	-	-	-	-	-	-	6	0.2	0.44
52 Northern Interior	-	3	-	1	1	-	2	2	4	5	2	2	-	-	1	3	26	0.9	1.10
53 Peace Liard	-	-	-	-	2	-	-	1	1	-	-	1	-	-	-	1	6	0.2	0.61
N.S.	-	1	-	-	3	-	-	1	-	1	2	-	-	-	-	-	8	0.3	
PROVINCIAL TOTAL	**88**	**114**	**138**	**188**	**181**	**251**	**301**	**331**	**295**	**252**	**116**	**109**	**100**	**122**	**111**	**104**	**2,801**	**100.0**	**4.77**

Note: Health Service Delivery Area based on usual residence.
Rate per 100,000 population in specified area.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not stated.

HIGHLIGHTS TO TABLE 29

- Over the sixteen-year period, 1987-2002, 60.4% of the 2,801 deaths from HIV disease were to residents of the Vancouver Health Service Delivery Area (1,693 deaths). In 2002, 60 of the 104 HIV disease deaths were residents of Vancouver. Treatment facilities and other supports centered in the Vancouver Health Services Delivery Area account for some of the concentration of cases in that area.
- The only other Health Service Delivery Areas with over one hundred HIV disease deaths during the 1987-2002 period were South Vancouver Island (224), Simon Fraser (209), South Fraser (163), and North Shore/ Coast Garibaldi (134).
- The provincial rate for deaths due to HIV disease, for the period 1987-2002, was 4.77 per 100,000 population. The five Health Service Delivery Areas with the highest rates for deaths due to HIV disease (total deaths for 1987-2002 in parentheses) were:

32	Vancouver	(1693)	20.06
41	South Vancouver Island	(224)	3.76
33	North Shore/Coast Garibaldi	(134)	3.43
22	Simon Fraser	(209)	2.82
42	Central Vancouver Island	(86)	2.51

TABLE 30
DEATHS FROM ACCIDENTS AND VIOLENCE BY GENDER
BRITISH COLUMBIA, 2002

Cause of Death	ICD-10 Code	Male		Female		Total	
		Number	ASMR	Number	ASMR	Number	ASMR
Motor vehicle accidents[1]	V02-V04, ...Y85.0	288	1.39	111	0.50	399	0.94
Other transport accidents[2]	V01,... Y85.9	27	0.11	4	0.02	31	0.07
Accidental poisoning	X40-X49	135	0.64	50	0.24	185	0.44
Accidental falls	W00-W19	138	0.63	171	0.46	309	0.54
Accident caused by fire	X00-X09	12	0.06	8	0.03	20	0.04
Drowning/submersion	W65-W74	36	0.16	5	0.02	41	0.09
Accident caused by machinery	W24, W28-W31	6	0.03	1	0.01	7	0.02
Accident caused by firearms	W32-W34	7	0.03	2	0.01	9	0.02
All other accidents[3]	W20-W23,...Y88	75	0.34	43	0.15	118	0.25
Suicide	X60-X84, Y87.0	306	1.40	90	0.39	396	0.89
Homicide	X85-Y09, Y87.1	29	0.13	8	0.04	37	0.08
Event of undetermined intent	Y10-Y34, Y87.2	13	0.06	7	0.04	20	0.05
Sequelae of other external causes	Y86, Y89	12	0.05	4	0.01	16	0.03
TOTAL	**V01-Y89**	**1,084**	**5.04**	**504**	**1.91**	**1,588**	**3.46**

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
[1]ICD-10 codes V02–V04, V09, V12–V14, V19.0–V19.6, V20–V79, V80.3–V80.5, V82.0–V82.1, V28.3–V89.0, V89.2, V89.9, Y85.0.
[2]ICD-10 codes V01, V05–V06, V10–V11, V15–V18, V19.8–V19.9, V80.0–V80.2, V80.6–V80.9, V81.0–V81.9, V82.2–V82.9, V89.1, V89.3, V90–V99, Y85.9.
[3]ICD-10 codes W20–W23, W25–W27, W35–W64, W75–W99, X10–X39, X50–X59, Y40–Y84, Y35–Y36, Y88.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 30

- Accidents and violence include all deaths from accidents, suicide, homicide, and deaths of undetermined intent. In 2002, there were 1,588 deaths from accidents and violence among B.C. residents.
- Out of every 1,000 of all deaths in 2002, approximately :
  - 945 deaths were from natural causes (please refer to Table 21)
  - 55 deaths were from accidents and violence, including
    - ~ 14 were motor vehicle accidents (399)
    - ~ 14 were suicide (396)
    - ~ 11 were accidental falls (309)
    - ~ 6 were accidental poisoning (185)
    - ~ 1 was from drowning/submersion (41)
    - ~ 1 was a victim of homicide (37)
    - ~ 1 was from other transport accidents (31)
    - ~ 1 was from fire (20)
    - ~ 1 was from an event of undetermined intent (20)
- The Age Standardized Mortality Rate (ASMR) for deaths from accidents and violence was 3.46 deaths per 10,000 standard population in 2002. The ASMR for males was 5.04; the ASMR for females was 1.91 in 2002. On average, males accounted for more than two thirds of the deaths from accidents and violence (68.3%)
- For males and females, the leading causes of death from accidents and violence are shown below, ranked by number of deaths in 2002. ASMRs per 10,000 male or female standard population are shown in parentheses.

Males			*Females*		
Suicide	306	(1.40)	Accidental falls	171	(0.46)
Motor vehicle accidents	288	(1.39)	Motor vehicle accidents	111	(0.50)
Accidental falls	138	(0.63)	Suicide	90	(0.39)
Accidental poisoning	135	(0.64)	Accidental poisoning	50	(0.24)

DEATHS FROM ACCIDENTS AND VIOLENCE BY LOCAL HEALTH AREA

Local Health Area		Motor Vehicle Accidents	Other Transport Accidents	Accidental		Fire/ Flames	Accidental Drowning/ Submersion	Suicide	Homicide	Other	Total	
				Poisoning	Falls						Deaths	ASMR
001	Fernie	3	-	-	-	2	-	3	-	1	9	6.41
002	Cranbrook	4	-	2	1	-	-	5	-	1	13	4.49
003	Kimberley	1	-	-	1	-	-	-	-	-	2	2.17
004	Windermere	3	1	-	-	-	-	3	-	-	7	7.70
005	Creston	2	-	-	2	-	-	3	-	1	8	6.47
006/007	Kootenay Lake/Nelson	6	-	1	6	-	-	2	-	1	16	4.70
009	Castlegar	4	-	-	3	-	-	2	-	-	9	6.03
010	Arrow Lakes	1	-	-	2	-	-	-	-	-	3	3.97
011	Trail	5	-	1	4	-	-	3	-	-	13	6.08
012/013	Grand Forks/Kettle Valley	3	-	-	1	-	-	1	-	1	6	4.04
014	Southern Okanagan	6	-	1	1	-	-	4	-	-	12	6.40
015	Penticton	4	-	2	6	1	-	4	-	5	22	6.10
016	Keremeos	3	-	1	-	-	-	2	-	-	6	13.82
017	Princeton	2	-	-	-	1	-	1	-	-	4	9.50
018	Golden	3	-	-	-	-	1	1	-	-	5	6.51
019	Revelstoke	2	-	-	1	-	1	-	-	1	5	5.59
020	Salmon Arm	4	-	-	2	-	-	3	1	3	13	2.69
021	Armstrong-Spallumcheen	2	-	-	1	-	-	1	1	1	6	7.10
022	Vernon	10	1	6	-	-	-	2	3	4	26	4.22
023	Central Okanagan	17	3	14	18	-	-	12	1	2	67	3.66
024	Kamloops	23	2	6	12	1	3	16	2	10	75	6.84
025	100 Mile House	4	-	2	-	-	-	2	-	-	8	5.21
026	North Thompson	1	-	1	-	-	1	-	-	1	4	8.11
027	Cariboo-Chilcotin	3	1	2	3	2	-	6	-	3	20	7.81
028	Quesnel	13	1	4	4	-	-	-	-	1	23	9.56
029	Lillooet	1	-	1	1	-	-	1	-	-	4	9.14
030	South Cariboo	6	-	-	-	-	-	2	-	-	8	9.17
031	Merritt	3	-	-	2	-	-	3	-	-	8	6.22
032	Hope	-	-	1	1	-	-	-	-	1	3	3.39
033	Chilliwack	12	2	3	6	-	1	5	-	5	34	4.37
034	Abbotsford	7	-	2	4	-	-	11	1	5	30	2.24
035	Langley	9	1	4	3	-	-	3	-	5	25	2.12
036	Surrey	25	-	21	22	-	-	28	6	10	112	2.72
037	Delta	11	-	1	4	-	-	8	1	2	27	2.35
038	Richmond	10	-	-	6	1	-	9	1	8	35	1.94
040	New Westminster	1	-	1	8	-	2	6	-	1	19	2.55
041	Burnaby	7	-	3	14	-	1	19	1	2	47	1.99
042	Maple Ridge	6	-	3	2	1	1	14	-	1	28	3.16
043	Coquitlam	4	1	6	9	-	3	12	1	4	40	2.05
044	North Vancouver	6	1	2	13	-	-	10	-	4	36	2.20
045	West Vancouver-Bowen Is.	3	1	2	6	-	-	3	-	-	15	1.94
046	Sunshine Coast	-	-	1	1	1	-	1	-	-	4	1.03
047	Powell River	1	-	2	2	-	-	-	-	2	7	2.41
048	Howe Sound	10	-	-	1	1	3	4	2	-	21	7.27
049	Bella Coola Valley	3	-	-	-	-	1	1	-	1	6	17.77
050	Queen Charlotte	-	-	-	2	-	-	-	-	2	4	6.21
051	Snow Country	3	-	-	-	-	-	-	-	-	3	43.29
052	Prince Rupert	2	1	-	1	-	1	4	1	2	12	6.35
053	Upper Skeena	-	-	-	-	-	-	1	-	1	2	4.30
054	Smithers	5	1	-	-	-	1	1	2	-	10	5.95
055/093	Burns Lake/Eutsuk	3	-	1	-	-	1	2	-	-	7	9.97
056	Nechako	6	-	1	-	-	-	2	2	1	12	6.63
057	Prince George	21	2	2	5	1	2	12	-	5	50	5.35
059	Peace River South	10	1	-	4	1	-	1	-	4	21	8.41
060	Peace River North	7	-	-	3	-	-	1	-	3	14	5.13
061	Greater Victoria	8	2	15	31	-	-	25	1	10	92	3.29
062	Sooke	1	-	1	3	-	1	5	-	1	12	2.04
063	Saanich	1	2	1	6	-	-	1	-	4	15	1.85
064	Gulf Islands	-	-	-	-	-	1	2	-	2	5	3.68
065	Cowichan	2	-	2	6	-	1	12	1	1	25	5.54
066	Lake Cowichan	1	-	-	-	-	-	1	-	-	2	4.53
067	Ladysmith	4	1	1	2	-	-	1	-	1	10	5.69
068	Nanaimo	4	-	5	10	-	2	12	2	6	41	3.68
069	Qualicum	6	2	3	4	1	-	3	-	-	19	4.30
070	Alberni	5	1	-	3	-	1	4	2	4	20	6.23
071	Courtenay	9	1	1	4	1	-	8	-	2	26	4.37
072/084	Campbell River/V.I. West	4	1	2	2	-	2	9	-	3	23	5.52
075	Mission	5	-	2	1	-	-	4	1	3	16	3.87
076	Agassiz-Harrison	-	-	-	-	-	1	-	-	-	1	0.87
077	Summerland	-	-	-	5	-	-	1	-	4	10	5.55
078	Enderby	2	-	-	-	-	2	1	-	-	5	5.98
080	Kitimat	2	-	-	1	-	-	-	-	-	3	2.54
081	Fort Nelson	2	-	-	-	-	-	2	-	-	4	5.94
083	Central Coast	1	-	-	-	-	1	1	-	-	3	20.25
085	Vancouver Island North	-	-	-	-	-	-	1	-	-	1	0.46
087/094	Stikine/Telegraph Creek	-	-	-	1	-	-	-	-	1	2	7.02
088	Terrace	5	1	1	1	1	1	3	1	3	17	7.98
092	Nisga'a	1	-	-	-	1	-	1	-	1	4	24.73
161	Vancouver City Centre	2	-	13	7	1	-	14	-	1	38	3.91
162	Vancouver Downtown E. Side	4	-	19	4	-	1	10	-	4	42	6.59
163	Vancouver North East	5	-	1	7	1	-	10	-	3	27	2.37
164	Vancouver West Side	4	-	5	5	-	2	7	1	3	27	1.89
165	Vancouver Midtown	4	-	7	3	-	1	13	-	2	30	3.17
166	Vancouver South	6	-	4	13	1	1	4	2	6	37	2.40
039	**VANCOUVER TOTAL**	**25**	-	**50**	**41**	**3**	**5**	**59**	**3**	**19**	**205**	**3.03**
	N.S.	-	-	1	-	-	-	-	-	-	1	
	PROVINCIAL TOTAL	**399**	**31**	**185**	**309**	**20**	**41**	**396**	**37**	**170**	**1,588**	**3.46**
	PERCENT	**25.1**	**2.0**	**11.6**	**19.5**	**1.3**	**2.6**	**24.9**	**2.3**	**10.7**	**100.0**	

Note: Based on usual residence. ASMR – Age standardized mortality rate per 10,000 standard population (Canada 1991 Census). PERCENT – Provincial total for each cause as a percent of the Provincial total for all deaths from external causes. Other is comprised of accident caused by machinery, accident caused by firearms, all other accidents, event of undetermined intent, and sequelae of other external causes. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents and LHA unknown (one case) excluded.

HIGHLIGHTS TO TABLE 31

Deaths from accidents and violence are shown in this table based on the Local Health Area (LHA) of usual residence of the decedent, and not the location where the death occurred.

- The Age Standardized Mortality Rate (ASMR) for deaths from accidents and violence was 3.46 deaths per 10,000 standard population. There were 46 Local Health Areas (LHAs) which had ASMRs greater than the provincial rate and had five or more deaths from external causes. Of these LHAs, 11 had values that were at least twice the provincial rate. The LHAs with the highest ASMRs, based on five or more deaths from accidents and violence (number of deaths in parentheses) were:

049	Bella Coola Valley	(6)	17.77
016	Keremeos	(6)	13.82
055/093	Burns Lake/Eutsuk	(7)	9.97
028	Quesnel	(23)	9.56
030	South Cariboo	(8)	9.17

- There were 20 LHAs with accidents and violence ASMRs below the provincial rate that had five or more deaths. The five LHAs with the lowest ASMR values in 2002 for deaths from accidents and violence (based on five or more deaths) were (number of deaths in parentheses):

063	Saanich	(15)	1.85
164	Vancouver West Side	(27)	1.89
045	West Vancouver-Bowen Is.	(15)	1.94
038	Richmond	(34)	1.94
041	Burnaby	(47)	1.99

- During 2002, suicides (396 deaths) and motor vehicle accidents (399) each accounted for approximately one in four of the deaths from accidents and violence. Accidental falls (309) accounted for about a fifth and accidental poisoning (185) accounted for about one ninth of deaths from external causes.
- Deaths from motor vehicle accidents (MVA) occurred most often in 2002 to residents of Surrey (25 deaths) and Kamloops (23).
- Accidental poisoning deaths occurred most often in 2002 to residents of Surrey (21) and Vancouver Downtown East Side (19 deaths).
- Deaths from accidental falls occurred most often in 2002 to residents of Greater Victoria (31 deaths) and Surrey (22).
- Deaths from suicide occurred most often in 2002 to residents Surrey (28) and Greater Victoria. (25).

TABLE 32
SUICIDE DEATHS BY MONTH AND GENDER
BRITISH COLUMBIA, 2002

Month	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
January	28	9.2	12	13.3	40	10.1
February	37	12.1	5	5.6	42	10.6
March	25	8.2	11	12.2	36	9.1
April	28	9.2	9	10.0	37	9.3
May	27	8.8	9	10.0	36	9.1
June	22	7.2	8	8.9	30	7.6
July	28	9.2	11	12.2	39	9.8
August	24	7.8	10	11.1	34	8.6
September	18	5.9	4	4.4	22	5.6
October	21	6.9	4	4.4	25	6.3
November	22	7.2	6	6.7	28	7.1
December	26	8.5	1	1.1	27	6.8
TOTAL	**306**	**100.0**	**90**	**100.0**	**396**	**100.0**

Note: Suicide Deaths – ICD-10 codes X60–X84, Y87.0.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

Vital Statistics Information Box

The Health Status Registry

The Health Status Registry (HSR) is a database of information on individuals with congenital anomalies, genetic conditions, and selected disabilities operated by the British Columbia Vital Statistics Agency under Section 10 of the Health Act. Information reported to the Health Status Registry is used only for statistical and medical research, for example to identify trends in the rate of particular conditions within the province. No administrative use, such as using the data to track individuals through the health system, is allowed for under the Act. Use of the data is also bound by the *Freedom of Information and Protection of Privacy Act* and thus the Registry is prohibited from releasing any information which would allow identification of a particular individual.

Frequent users of the HSR data include; the Provincial Health Officer who uses the data as part of his studies into the health of British Columbians, academic researchers who are examining particular conditions and international organizations such as the World Health Organization. In addition the BC Vital Statistics Agency produces the *Health Status Registry Report*, a regular Agency publication outlining the major trends in the data.

In 2001 the Health Status Registry was accepted as a full member of the International Clearinghouse for Birth Defects Monitoring Systems (ICBDMS). HSR now participates in ICBDMS's international birth defects monitoring activities by submitting quarterly and annual data for residents of British Columbia.

The table below, shows the number of diagnoses registered to the HSR in the years 1991-2001 for the specified conditions.

Selected Congenital Anomalies for Total Births (Live Births and Stillbirths) Reported to the HSR

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total
Nervous System Defects	**128**	**152**	**126**	**159**	**209**	**201**	**152**	**133**	**143**	**114**	**76**	**1,593**
anencephalus & similar defects	8	11	5	11	12	7	5	4	10	6	12	91
neural tube defects	42	71	36	38	37	45	27	31	45	22	17	411
hydrocephalus	23	10	18	26	31	25	17	14	25	20	8	217
other nervous system defects	55	60	67	84	127	123	101	84	63	66	39	869
Anomalies of Eye	**45**	**27**	**36**	**44**	**75**	**57**	**47**	**47**	**49**	**33**	**11**	**471**
Anomalies of Ear, Face, Neck	**83**	**64**	**48**	**101**	**98**	**118**	**120**	**104**	**109**	**118**	**44**	**1,007**
Anomalies of Heart	**330**	**297**	**304**	**416**	**533**	**624**	**599**	**600**	**433**	**476**	**149**	**4,761**
transposition of great vessels	24	15	13	13	36	32	33	34	25	29	6	260
tetralogy of Fallot	18	20	14	13	19	19	16	23	19	20	8	189
ventricular septal defect	99	75	85	106	117	174	149	142	115	123	37	1,222
hypoplastic left heart syndrome	8	10	8	9	17	16	11	16	11	8	11	125
other heart anomalies	181	177	184	275	344	383	390	385	263	296	87	2,965
Circulatory System Anomalies	**175**	**172**	**160**	**294**	**370**	**532**	**480**	**449**	**350**	**390**	**94**	**3,386**
patent duct usarteriosus	58	60	56	120	167	272	248	237	193	174	28	1,613
Anomalies of Respiratory System	**91**	**63**	**56**	**74**	**76**	**111**	**102**	**79**	**92**	**84**	**19**	**847**
Cleft Palate/Cleft Lip	**129**	**117**	**106**	**125**	**99**	**134**	**143**	**141**	**136**	**134**	**57**	**1,321**
Anomalies of Upper Alimentary Tract	**71**	**71**	**67**	**104**	**118**	**137**	**129**	**93**	**233**	**236**	**59**	**1,318**
tracheoesophageal fistula	13	11	9	20	18	10	18	15	10	8	4	136
pyloricstenosis	39	41	28	21	30	30	28	26	31	37	5	316
other anomalies of alimentary tract	19	19	30	63	70	97	83	52	192	191	50	866
Other Anomalies of Digestive System	**71**	**83**	**67**	**72**	**105**	**105**	**104**	**111**	**105**	**105**	**25**	**953**
Anomalies of Genital Organs	**219**	**229**	**240**	**345**	**293**	**458**	**364**	**280**	**385**	**377**	**135**	**3,325**
Anomalies of Urinary System	**165**	**204**	**181**	**168**	**177**	**198**	**195**	**213**	**212**	**199**	**65**	**1,977**
renal agenesis	23	39	18	28	19	25	17	24	32	26	8	259
cystic kidney diseas	21	28	30	18	25	41	27	32	22	36	13	293
other urinary anomalies	120	137	133	122	133	132	151	157	158	137	44	1,424
Congenital Musculoskeletal Deformities	**651**	**615**	**567**	**781**	**640**	**1,029**	**947**	**818**	**1,079**	**1,009**	**379**	**8,515**
anomalies of spine	9	15	15	18	12	21	19	18	18	17	9	171
congenital dislocation of hip	209	198	177	254	137	345	273	214	366	368	113	2,654
varus, vulgus, clubfoot	117	125	135	152	134	206	200	149	219	216	87	1,740
polydactyly, syndactyly	64	77	58	65	59	85	79	80	93	103	30	793
limb reductions	34	28	17	15	31	35	28	27	22	29	13	279
chondro/osteodystrophies	10	9	19	7	14	16	13	23	14	7	10	142
other musculoskeletal deformities	208	163	146	270	253	321	334	307	347	269	117	2,735
Anomalies of the Integument	**66**	**94**	**74**	**192**	**191**	**173**	**166**	**185**	**242**	**240**	**97**	**1,550**
hemangioma and lymphangioma	17	19	9	36	25	44	33	16	45	42	18	304
other anomalies of integument	49	75	65	156	76	129	133	89	197	198	79	1,246
Fetal Alcohol Spectrum Disorder	**8**	**12**	**4**	**49**	**35**	**89**	**96**	**100**	**248**	**180**	**3**	**824**
Chromosomal Anomalies	**116**	**116**	**94**	**123**	**137**	**172**	**175**	**156**	**121**	**146**	**112**	**1,467**
Down's syndrome	73	45	62	60	67	77	88	68	52	74	53	719
other chromosomal anomalies	40	68	32	63	70	95	87	88	69	72	59	743
Multiple & Multiple System Anomalies	**55**	**52**	**36**	**78**	**67**	**57**	**68**	**71**	**68**	**65**	**41**	**651**
Other and Unspecified Anomalies	**48**	**31**	**33**	**42**	**78**	**59**	**59**	**61**	**51**	**39**	**13**	**506**
Total Diagnoses	2,452	2,398	2,199	3,159	3,203	4,254	3,946	3,561	4,056	3,865	1,379	34,472
Total Cases	1,668	1,680	1,542	2,669	1,875	2,693	2,487	2,021	2,827	2,639	1,844	22,465

(concluded on page 85)

Vital Statistics Information Box

(continued from page 84)

CONGENITAL ANOMALIES CATEGORIES AND CODES

Diagnostic Category	ICD-9 Codes	ICD-10 Codes
Nervous System Defects	**740–742**	**Q00–Q07**
anencephalus and similar defects	740.0–740.2	Q00
neural tube defects	741, 742.0	Q01, Q05, Q07.0
hydrocephalus	742.3	Q03
other nervous system	742.1–742.2, 742.4–742.9	Q02, Q04, Q06, Q07.8–Q07.9, G90.1
Anomalies of the Eye	**743**	**Q10–Q15**
Anomalies of Ear, Face, Neck	**744**	**Q16–Q18**
Anomalies of Heart	**745–746**	**Q20–Q24**
transposition of great vessels	745.1	Q20.1–Q20.3, Q20.5
tetralogy of Fallot	745.2	Q21.3
ventricular septal defect	745.4	Q21.0, Q21.2
hypoplastic left heart syndrome	746.7	Q23.4
other heart anomalies	745.0, 745.3, 745.5–746.6, 746.8–746.9	Q20.0, Q20.4, Q20.6–Q20.9, Q21.1, Q21.4–Q21.9, Q22, Q23.0–Q23.3, Q23.9–Q23.9, Q24
Anomalies of Circulatory System	**747**	**P29.3, Q25–Q28**
patent ductus arteriosus	747.0	Q25.0
Anomalies of Respiratory System	**748**	**Q30–Q34**
Cleft Palate/Cleft Lip	**749.0–749.2**	**Q35–Q37**
Anomalies of Upper Alimentary Tract	**750**	**Q38–Q40**
tracheoesophageal fistula	750.3	Q39.1–Q39.2
pyloric stenosis	750.5	Q40.0
other anomalies of alimentary tract	750.0–750.2, 750.4, 750.6–750.9	Q38, Q39.0, 39.3–Q39.9, Q40.1–Q40.9
Other Anomalies of Digestive System	**751**	**Q41–Q45**
Anomalies of Genital Organs	**752**	**Q50–Q56**
Anomalies of Urinary System	**753**	**Q60–Q64**
renal agenesis	753.0	Q60
cystic kidney disease	753.1	Q61
other urinary anomalies	753.2–753.9	Q62–Q64
Congenital Musculoskeletal Deformities	**754–756**	**Q65–Q79, R29.4**
congenital anomalies of spine	754.2, 756.1	Q67.5, Q76.0–Q76.4
congenital dislocation of hip	754.3	Q65.0–Q65.6, Q65.8–Q65.9
varus, valgus, clubfoot	754.5–754.7	Q66
polydactyly, syndactyly	755.0–755.1	Q69–Q70
limb reductions	755.2–755.4	Q71–Q73
chondro/osteo dystrophies	756.4–756.5	Q77.0–Q78.4, Q78.6–Q78.9
other musculoskeletal deformities	754.0–754.1, 754.4, 754.8–754.9, 755.5–756.0, 756.2–756.3, 756.6–756.9	Q65.7**, Q67.0–Q67.4, Q67.6–Q67.8, Q68, Q74–Q75, Q76.5–Q76.9, Q78.5, Q79, R29.4
Anomalies of the Integument	**228, 757**	**D18, Q80–Q84**
hemangioma and lymphangioma	228	D18
other anomalies of integument	757	Q80–Q84
Fetal Alcohol Spectrum Disorder (FASD)	**760.7***	**Q86.0**
Chromosomal Anomalies	**758**	**Q90–Q99**
Downs syndrome	758.0	Q90
other chromosomal anomalies	758.1–758.9	Q91–Q99
Multiple Anomalies	**759.7–759.8**	**Q86.1–Q86.8, Q87, Q89.7–Q89.8**
Other and Unspecified Anomalies	**237.7, 759.0–759.6, 759.9**	**Q85, Q89.0–Q89.4, Q89.9**

Note: * Etiologies indicating causes other than alcohol (e.g., hydantoins) were excluded.
** Special code used for dislocatable/sublocatable hip.

HIGHLIGHTS TO TABLE 32

- Of the 396 suicide deaths in the province in 2002, just over three quarters (77.3) were male (306).
- The distribution of suicide deaths by month varies from year to year. In 2002, February had 42 suicides, January had 40 and July had 39. September had the least (22) total suicides, followed by October with 25 and December with 27 suicides.
- Male deaths from suicide were highest also in February (37), and January, April and July with 28 deaths, and lowest in September with 18 and October with 21. Female suicide deaths were highest in January with 12 deaths, and lowest in December with 1 death.

Table 33

STANDARDIZED MORTALITY RATIO – ALL CAUSES OF DEATH

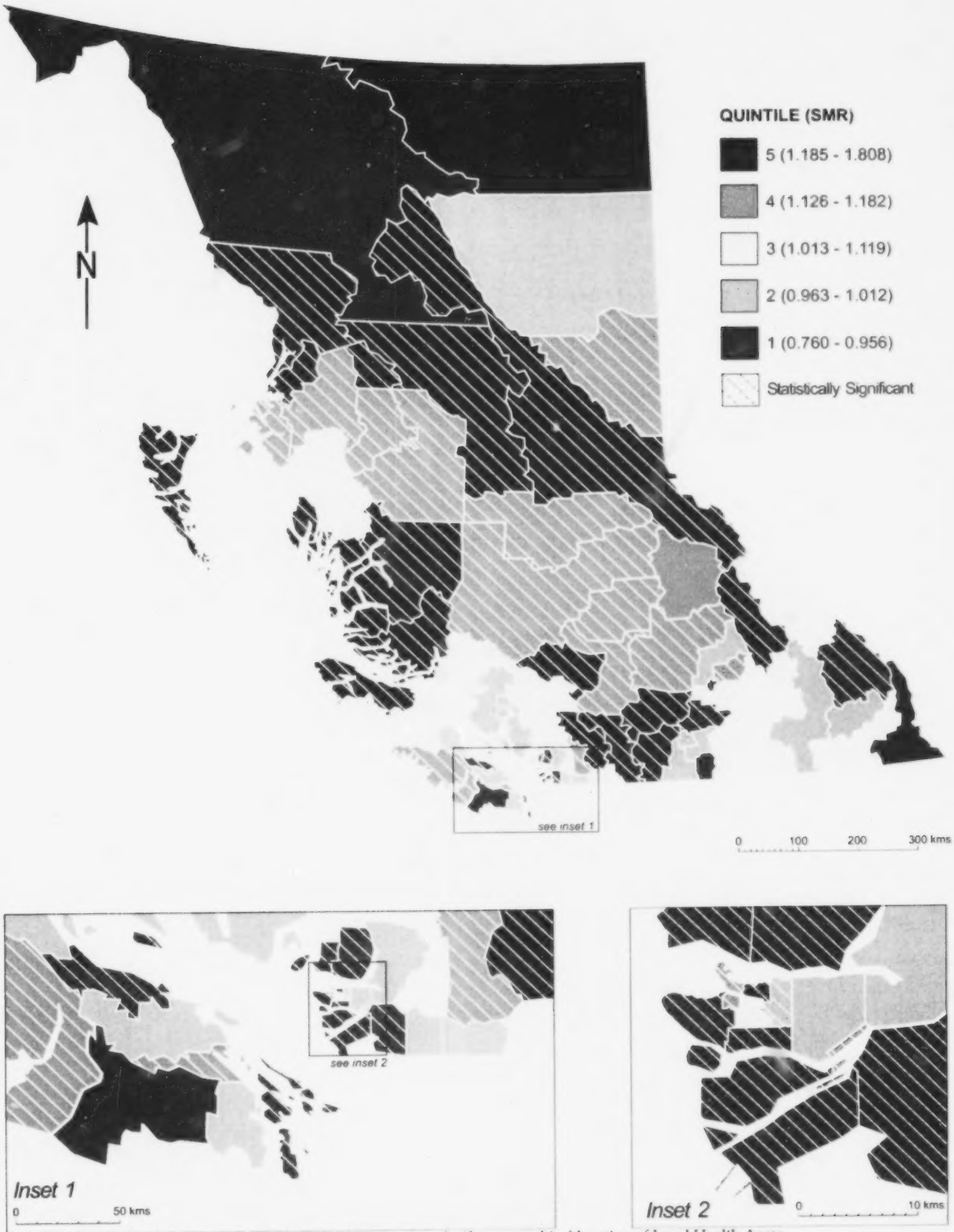
Local Health Area		1997–2001 Observed Deaths	1997–2001 SMR	(p)	2002 Observed Deaths	2002 Expected Deaths	2002 SMR	(p)	95% Confidence Interval Lower		Upper
001	Fernie	372	0.93		75	79.13	0.95		0.75	-	1.19
002	Cranbrook	839	1.07		162	168.04	0.96		0.82	-	1.12
003	Kimberley	392	0.98		90	80.71	1.12		0.90	-	1.37
004	Windermere	199	0.76	*	57	55.89	1.02		0.77	-	1.32
005	Creston	683	1.01		117	134.86	0.87		0.72	-	1.04
006/007	Kootenay Lake/Nelson	1,051	1.01		199	208.97	0.95		0.82	-	1.09
009	Castlegar	528	1.05		122	101.26	1.20	*	1.00	-	1.44
010	Arrow Lakes	245	1.07		42	44.25	0.95		0.68	-	1.28
011	Trail	1,042	1.11	*	215	182.14	1.18	*	1.03	-	1.35
012/013	Grand Forks/Kettle Valley	585	1.06		112	112.20	1.00		0.82	-	1.20
014	Southern Okanagan	1,134	0.95		253	243.97	1.04		0.91	-	1.17
015	Penticton	2,260	0.97		487	488.35	1.00		0.91	-	1.09
016	Keremeos	259	1.00		56	54.35	1.03		0.78	-	1.34
017	Princeton	242	1.20	*	48	41.66	1.15		0.85	-	1.53
018	Golden	178	1.08		36	33.86	1.06		0.74	-	1.47
019	Revelstoke	285	1.22	*	54	48.45	1.11		0.84	-	1.45
020	Salmon Arm	1,383	0.98		291	294.01	0.99		0.88	-	1.11
021	Armstrong-Spallumcheen	352	0.96		74	75.07	0.99		0.77	-	1.24
022	Vernon	2,570	1.03		547	526.68	1.04		0.95	-	1.13
023	Central Okanagan	5,780	0.87	*	1,370	1,405.99	0.97		0.92	-	1.03
024	Kamloops	3,523	1.13	*	787	657.89	1.20	*	1.11	-	1.28
025	100 Mile House	535	1.16	*	114	96.12	1.19		0.98	-	1.42
026	North Thompson	129	1.15		27	23.91	1.13		0.74	-	1.64
027	Cariboo-Chilcotin	739	1.17	*	154	134.02	1.15		0.97	-	1.35
028	Quesnel	755	1.14	*	164	136.72	1.20	*	1.02	-	1.40
029	Lillooet	171	1.40	*	32	24.59	1.30		0.89	-	1.84
030	South Cariboo	299	1.16	*	83	53.83	1.54	*	1.23	-	1.91
031	Merritt	445	1.31	*	100	71.02	1.41	*	1.15	-	1.71
032	Hope	412	1.24	*	77	69.24	1.11		0.88	-	1.39
033	Chilliwack	2,889	1.06	*	592	568.13	1.04		0.96	-	1.13
034	Abbotsford	4,116	0.97		852	882.66	0.97		0.90	-	1.03
035	Langley	3,598	1.01		720	760.47	0.95		0.88	-	1.02
036	Surrey	10,532	0.93	*	2,248	2,494.57	0.90	*	0.86	-	0.94
037	Delta	2,661	0.90	*	552	633.79	0.87	*	0.80	-	0.95
038	Richmond	3,976	0.83	*	821	993.17	0.83	*	0.77	-	0.89
040	New Westminster	2,564	1.17	*	467	437.51	1.07		0.97	-	1.17
041	Burnaby	6,717	0.99		1,292	1,357.26	0.95		0.90	-	1.01
042	Maple Ridge	2,318	1.11	*	530	453.70	1.17	*	1.07	-	1.27
043	Coquitlam	4,301	0.98		866	951.07	0.91	*	0.85	-	0.97
044	North Vancouver	3,934	0.95	*	822	876.70	0.94		0.87	-	1.00
045	West Vancouver-Bowen Is.	2,327	0.86	*	452	547.62	0.83	*	0.75	-	0.91
046	Sunshine Coast	1,144	1.00		215	238.85	0.90		0.78	-	1.03
047	Powell River	839	1.01		189	174.44	1.08		0.93	-	1.25
048	Howe Sound	518	1.07		108	106.32	1.02		0.83	-	1.23
049	Bella Coola Valley	88	1.30	*	24	14.44	1.66	*	1.06	-	2.47
050	Queen Charlotte	142	1.31	*	28	21.79	1.28		0.85	-	1.86
051	Snow Country	20	1.72	*	7	2.19	3.19	*	1.28	-	6.58
052	Prince Rupert	442	1.17	*	123	72.67	1.69	*	1.41	-	2.02
053	Upper Skeena	138	1.34	*	21	19.46	1.08		0.67	-	1.65
054	Smithers	383	1.14	*	68	71.55	0.95		0.74	-	1.20
055/093	Burns Lake/Eutsuk	216	1.16	*	45	39.37	1.14		0.83	-	1.53
056	Nechako	442	1.25	*	100	73.64	1.36	*	1.10	-	1.65
057	Prince George	2,321	1.20	*	495	397.95	1.24	*	1.14	-	1.36
059	Peace River South	750	1.14	*	164	133.75	1.23	*	1.05	-	1.43
060	Peace River North	531	0.99		110	110.88	0.99		0.82	-	1.20
061	Greater Victoria	11,215	1.03	*	2,248	2,172.28	1.03		0.99	-	1.08
062	Sooke	1,435	1.02		312	296.48	1.05		0.94	-	1.18
063	Saanich	2,781	0.85	*	586	698.95	0.84	*	0.77	-	0.91
064	Gulf Islands	689	0.90	*	111	162.31	0.68	*	0.56	-	0.82
065	Cowichan	1,972	0.99		412	416.05	0.99		0.90	-	1.09
066	Lake Cowichan	174	0.89		46	42.10	1.09		0.80	-	1.46
067	Ladysmith	871	1.17	*	173	154.83	1.12		0.96	-	1.30
068	Nanaimo	3,622	1.01		788	763.65	1.03		0.96	-	1.11
069	Qualicum	2,038	0.92	*	433	473.86	0.91		0.83	-	1.00
070	Alberni	1,256	1.17	*	246	220.61	1.12		0.98	-	1.26
071	Courtenay	2,129	1.01		463	448.06	1.03		0.94	-	1.13
072/084	Campbell River/V.I. West	1,219	1.08	*	267	239.35	1.12		0.99	-	1.26
075	Mission	1,200	1.18	*	243	213.05	1.14	*	1.00	-	1.29
076	Agassiz-Harrison	319	1.28	*	59	52.81	1.12		0.85	-	1.44
077	Summerland	701	0.97		173	142.87	1.21	*	1.04	-	1.41
078	Enderby	347	1.17	*	68	61.48	1.11		0.86	-	1.40
080	Kitimat	252	1.12		46	46.10	1.00		0.73	-	1.33
081	Fort Nelson	81	1.18		17	13.60	1.25		0.73	-	2.00
083	Central Coast	57	1.81	*	21	5.38	3.90	*	2.41	-	5.96
085	Vancouver Island North	312	1.29	*	64	47.84	1.34	*	1.03	-	1.71
087/094	Stikine/Telegraph Creek	41	0.94		8	8.12	0.98		0.42	-	1.94
088	Terrace	526	1.18	*	129	91.31	1.41	*	1.18	-	1.68
092	Nisga'a	50	1.59	*	14	6.55	2.14	*	1.17	-	3.59
161	Vancouver City Centre	3,378	1.14	*	647	586.10	1.10	*	1.02	-	1.19
162	Vancouver Downtown E. Side	2,946	1.59	*	516	345.37	1.49	*	1.37	-	1.63
163	Vancouver North East	2,870	0.96	*	579	608.21	0.95		0.88	-	1.03
164	Vancouver West Side	4,046	0.86	*	783	923.70	0.85	*	0.79	-	0.91
165	Vancouver Midtown	2,577	1.05	*	530	484.35	1.09	*	1.00	-	1.19
166	Vancouver South	4,020	0.90	*	845	879.48	0.96		0.90	-	1.03
039	**VANCOUVER TOTAL**	**19,839**	**1.02**	*	**3,900**	**3,827.21**	**1.02**		**0.99**	-	**1.05**
	N.S.	37			3						
	PROVINCIAL TOTAL	**138,457**	**1.00**		**28,686**		**1.00**				

Note: SMR – Standardized Mortality Ratio. *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not stated. Non-residents and gender unknown are excluded.

FIGURE 18

ALL CAUSES OF DEATH BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997-2001



Note: SMR - Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 33/FIGURE 18

- There were 28,686 deaths in the province in 2002, and a total of 138,457 deaths in the 1997-2001 period from all causes of death.
- There were 22 Local Health Areas (LHAs) with Standardized Mortality Ratios (SMR) for all causes of death which were statistically significant and high in 2002. The five highest (with number of deaths in parentheses) were:

083 Central Coast	(21)	3.90
051 Snow Country	(7)	3.19
092 Nisga'a	(14)	2.14
052 Prince Rupert	(123)	1.69
049 Bella Coola Valley	(24)	1.66

- There were eight LHAs with SMR values for all causes that were statistically significant and low in 2002. The five lowest (with number of deaths in parentheses) were:

064 Gulf Islands	(111)	0.68
038 Richmond	(821)	0.83
045 West Vancouver-Bowen Is.	(452)	0.83
063 Saanich	(586)	0.84
164 Vancouver West Side	(783)	0.85

- There were 38 LHAs with Standardized Mortality Ratios (SMR) for all causes of death which were statistically significant and high in 1997-2001. The five highest (with number of deaths in parentheses) were:

083 Central Coast	(57)	1.81
051 Snow Country	(20)	1.72
162 Van. Downtown E. Side	(2,946)	1.59
092 Nisga'a	(50)	1.59
029 Lillooet	(171)	1.40

- There were 13 LHAs with SMR values for all causes that were statistically significant and low in 1997-2001. The five lowest (with number of deaths in parentheses) were:

004 Windermere	(199)	0.76
038 Richmond	(3,976)	0.83
603 Saanich	(2,781)	0.85
164 Vancouver West Side	(4,046)	0.86
045 West Vancouver-Bowen Is.	(2,327)	0.86

TABLE 34
POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH
BRITISH COLUMBIA, 2002

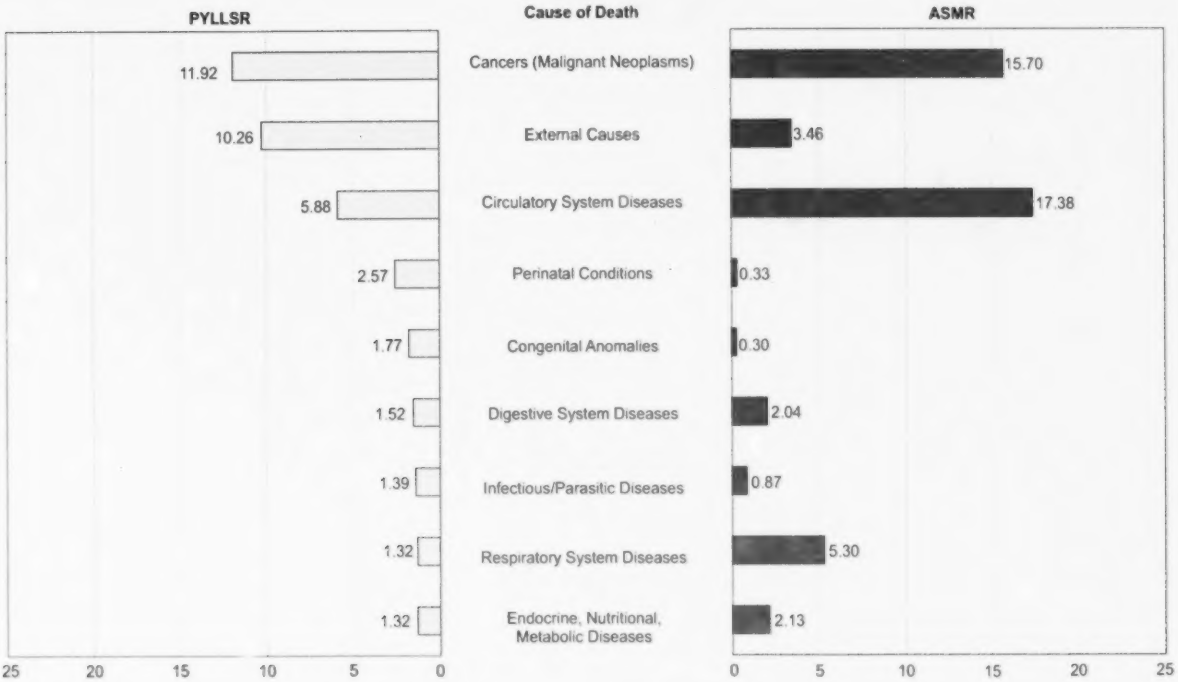
Cause of Death	ICD-10 Code(s)	PYLL (Age Under 75 Years) No. of Deaths	Total PYLL	Percent of PYLL	Average PYLL	PYLLSR	Mortality (All Ages) No. of Deaths	Percent of Deaths	ASMR
Infectious/parasitic diseases	A00-B99	281	6,217	3.3	22.1	1.39	442	1.5	0.87
-HIV disease	B20-B24	104	3,115	1.7	30.0	0.74	104	0.4	0.23
Malignant neoplasms	C00-C97	4,280	53,662	28.8	12.5	11.92	7,940	27.7	15.70
-Lung	C33-C34	1,201	12,823	6.9	10.7	2.80	2,015	7.0	4.08
-Female breast	C50.0-C50.9	366	5,630	3.0	15.4	2.37	600	2.1	2.17
-Colorectal	C18-C21	385	4,378	2.3	11.4	0.95	775	2.7	1.51
Endocrine, nutritional, metabolic diseases	E00-E89	431	5,493	2.9	12.7	1.32	1,116	3.9	2.13
-Diabetes	E10-E14	331	3,648	2.0	11.0	0.83	877	3.1	1.66
Diseases of circulatory system	I00-I99	2,410	26,345	14.1	10.9	5.88	9,698	33.8	17.38
-Ischemic heart disease	I20-I25	1,319	14,133	7.6	10.7	3.07	4,758	16.6	8.61
-Cerebrovascular disease	I60-I69	438	4,640	2.5	10.6	1.05	2,183	7.6	3.85
Diseases of respiratory system	J00-J99	609	5,720	3.1	9.4	1.32	2,986	10.4	5.30
-Pneumonia/influenza	J10-J18.1, J18.8-J18.9	146	1,560	0.8	10.7	0.36	1,224	4.3	2.07
-Chronic lung disease	J40-J44	334	2,500	1.3	7.5	0.57	1,257	4.4	2.31
Diseases of digestive system	K00-K93	476	7,040	3.8	14.8	1.52	1,097	3.8	2.04
-Chronic liver disease/cirrhosis	K70, K73-K74, K76.0-K76.1	227	3,863	2.1	17.0	0.82	279	1.0	0.57
Congenital anomalies	Q00-Q99	95	5,157	2.8	54.3	1.77	105	0.4	0.30
Perinatal conditions	P00-P96	90	6,698	3.6	74.4	2.57	90	0.3	0.33
External causes	V01-Y98	1,208	39,629	21.3	32.8	10.26	1,588	5.5	3.46
-Motor vehicle accidents[1]	V02-V04,...Y85.0	352	12,815	6.9	36.4	3.43	399	1.4	0.94
-Suicide	X60-X84, Y87.0	366	11,165	6.0	30.5	2.80	396	1.4	0.89
Other causes[2]		1,313	30,342	16.3	23.1	8.01	3,624	12.6	6.85
All causes		**11,193**	**186,302**	**100.0**	**16.6**	**45.96**	**28,686**	**100.0**	**54.36**

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census).
ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
[1]ICD-10 codes V02–V04, V09, V12–V14, V19.0–V19.6, V20–V79, V80.3–V80.5, V82.0–V82.1, V82.3–V89.0, V89.2, V89.9, Y85.0.
[2]Other causes includes undetermined and pending.
Total percentage may not add up to 100 due to rounding. Non-residents and gender unknown are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifier in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 19

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

BRITISH COLUMBIA, 2002



Note: PYLLSR Potential Years of Life Lost Standardized Rate (age under 75 years) per 1,000 standard population.
ASMR - Age Standardized Mortality Rate per 10,000 standard population.

HIGHLIGHTS TO TABLE 34/FIGURE 19

- Out of the 28,686 deaths in B.C. in 2002, 11,193 (39.0%) were under age 75. The proportion of 'premature' deaths varied considerably by cause of death:

  -1,208 deaths from external causes (accidents and violence) were premature (76.1% of the 1,588 deaths from this cause)
  -4,280 cancer deaths were premature (53.9% of 7,940 deaths)
  -2,410 circulatory system deaths were premature (24.9% of 9,698deaths)
  -609 respiratory system deaths were premature (20.4% of 2,986 deaths).

- Potential Years of Life Lost (PYLL) is used as an alternative measure of mortality to reflect the impact of deaths that occur at younger ages. For every death under the age of 75, there are potential years of life lost. A comparison of deaths from infectious/parasitic diseases and perinatal conditions illustrates the value of PYLL as an indicator. Infectious/parasitic diseases were responsible for 281 deaths and 6,217 potential years of life lost in 2002. In contrast, the 90 deaths from perinatal conditions resulted in a much larger number of PYLL (6,698) since all of these deaths were infants.

- In 2002, an average of 16.6 years of life were lost per death under 75 years of age. The causes of death shown in the table that had the highest average Potential Years of Life Lost (PYLL) were:

  -74.4 years lost per death due to perinatal conditions
  -54.3 years lost per death due to congenital anomalies
  -32.8 years lost per death due to external causes

- The Potential Years of Life Lost Standardized Rate (PYLLSR) for deaths from all causes in 2002 was 45.96 potential years of life lost per 1,000 standard population.

TABLE 35

POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 2002

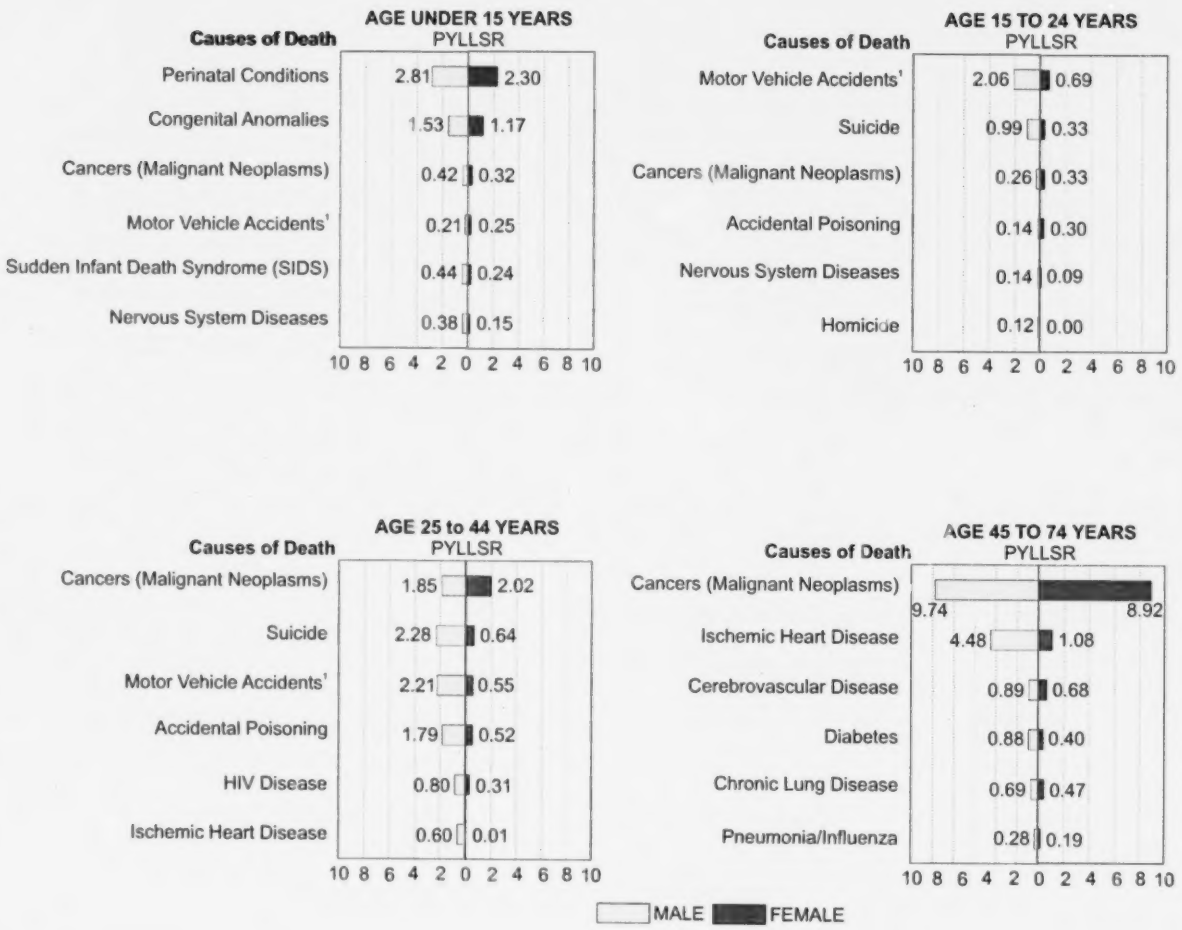
		Male				Female				Total			
Cause of Death	ICD-10 Code(s)	Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR
Under 15 Years Old													
Perinatal conditions	P00-P96	51	3,793	32.2	2.81	39	2,906	36.9	2.30	90	6,698	34.1	2.57
Congenital anomalies	Q00-Q99	29	2,125	18.0	1.53	20	1,488	18.9	1.17	49	3,612	18.4	1.36
Cancer (malignant neoplasms)	C00-C97	10	683	5.8	0.42	8	529	6.7	0.32	18	1,212	6.2	0.37
Motor vehicle accidents[1]	V02-V04,...Y85.0	6	390	3.3	0.21	7	443	5.6	0.25	13	833	4.2	0.23
Sudden infant death syndrome (SIDS)	R95	8	596	5.1	0.44	4	298	3.8	0.24	12	894	4.5	0.34
Nervous system diseases	G00-G99	7	519	4.4	0.38	3	212	2.7	0.15	10	731	3.7	0.27
Other causes[2]		53	3,671	31.2	2.36	29	2,000	25.4	1.34	82	5,671	28.9	1.86
All causes		**164**	**11,776**	**100.0**	**8.17**	**110**	**7,874**	**100.0**	**5.77**	**274**	**19,649**	**100.0**	**7.00**
15-24 Years Old													
Motor vehicle accidents[1]	V02-V04,...Y85.0	71	3,888	34.3	2.06	23	1,248	24.0	0.69	94	5,135	31.0	1.39
Suicide	X60-X84, Y87.0	34	1,830	16.1	0.99	11	603	11.6	0.33	45	2,433	14.7	0.66
Cancer (malignant neoplasms)	C00-C97	9	493	4.3	0.26	11	603	11.6	0.33	20	1,095	6.6	0.30
Accidental poisoning	X40-X49	5	268	2.4	0.14	10	540	10.4	0.30	15	808	4.9	0.22
Nervous system diseases	G00-G99	5	268	2.4	0.14	3	168	3.2	0.09	8	435	2.6	0.12
Homicide	X85-Y09, Y87.1	4	225	2.0	0.12	-	-	-	-	4	225	1.4	0.06
Other causes[2]		80	4,380	38.6	2.32	37	2,038	39.2	1.12	117	6,418	38.8	1.73
All causes		**208**	**11,350**	**100.0**	**6.04**	**95**	**5,198**	**100.0**	**2.86**	**303**	**16,548**	**100.0**	**4.47**
25-44 Years Old													
Cancer (malignant neoplasms)	C00-C97	98	3,555	11.3	1.85	115	4,048	27.8	2.02	213	7,603	16.5	1.93
Suicide	X60-X84, Y87.0	110	4,170	13.3	2.28	31	1,168	8.0	0.64	141	5,338	11.6	1.46
Motor vehicle accidents[1]	V02-V04,...Y85.0	93	3,738	11.9	2.21	24	950	6.5	0.55	117	4,688	10.2	1.38
Accidental poisoning	X40-X49	80	3,130	10.0	1.79	25	948	6.5	0.52	105	4,078	8.9	1.15
HIV disease	B20-B24	43	1,558	5.0	0.80	16	585	4.0	0.31	59	2,143	4.7	0.56
Ischemic heart disease	I20-I25	35	1,223	3.9	0.60	1	33	0.2	0.01	36	1,255	2.7	0.31
Other causes[2]		373	14,048	44.7	7.68	179	6,818	46.9	3.76	552	20,865	45.4	5.72
All causes		**832**	**31,420**	**100.0**	**17.20**	**391**	**14,548**	**100.0**	**7.81**	**1,223**	**45,968**	**100.0**	**12.51**
45-74 Years Old													
Cancer (malignant neoplasms)	C00-C97	2,171	22,363	35.2	9.74	1,858	21,390	52.7	8.92	4,029	43,753	42.0	9.32
Ischemic heart disease	I20-I25	975	10,418	16.4	4.48	308	2,460	6.1	1.08	1,283	12,878	12.4	2.76
Cerebrovascular disease	I60-I69	238	1,995	3.1	0.89	172	1,620	4.0	0.68	410	3,615	3.5	0.79
Diabetes	E10-E14	208	2,000	3.1	0.88	104	915	2.3	0.40	312	2,915	2.8	0.64
Chronic lung disease	J40-J44	186	1,480	2.3	0.68	148	1,020	2.5	0.47	334	2,500	2.4	0.57
Pneumonia/influenza	J10-J18.1, J18.8-J18.9	85	633	1.0	0.28	48	450	1.1	0.19	133	1,083	1.0	0.23
Other causes[2]		1,847	24,668	38.8	10.10	1,045	12,728	31.4	5.22	2,892	37,395	35.9	7.65
All causes		**5,710**	**63,555**	**100.0**	**27.06**	**3,683**	**40,583**	**100.0**	**16.97**	**9,393**	**104,138**	**100.0**	**21.97**

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census).
[1]ICD-10 codes V02–V04, V09, V12–V14, V19.0–V19.6, V20–V79, V80.3–V80.5, V82.0–V82.1, V82.3–V89.0, V89.2, V89.9, Y85.0.
[2]Other causes includes undetermined and pending. Causes of death are ordered by total deaths (age under 75 years).
Total percentage may not add up to 100 due to rounding. Non-residents and gender unknown are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 20

POTENTIAL YEARS OF LIFE LOST STANDARDIZED RATES BY AGE GROUP AND GENDER MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 2002


AGE UNDER 15 YEARS
Causes of Death
PYLLSR
Perinatal Conditions 2.81 2.30
Congenital Anomalies 1.53 1.17
Cancers (Malignant Neoplasms) 0.42 0.32
Motor Vehicle Accidents' 0.21 0.25
Sudden Infant Death Syndrome (SIDS) 0.44 0.24
Nervous System Diseases 0.38 0.15
10 8 6 4 2 0 2 4 6 8 10
AGE 15 TO 24 YEARS
Causes of Death
PYLLSR
Motor Vehicle Accidents' 2.06 0.69
Suicide 0.99 0.33
Cancers (Malignant Neoplasms) 0.26 0.33
Accidental Poisoning 0.14 0.30
Nervous System Diseases 0.14 0.09
Homicide 0.12 0.00
10 8 6 4 2 0 2 4 6 8 10
AGE 25 to 44 YEARS
Causes of Death
PYLLSR
Cancers (Malignant Neoplasms) 1.85 2.02
Suicide 2.28 0.64
Motor Vehicle Accidents' 2.21 0.55
Accidental Poisoning 1.79 0.52
HIV Disease 0.80 0.31
Ischemic Heart Disease 0.60 0.01
10 8 6 4 2 0 2 4 6 8 10
AGE 45 TO 74 YEARS
Causes of Death
PYLLSR
Cancers (Malignant Neoplasms) 9.74 8.92
Ischemic Heart Disease 4.48 1.08
Cerebrovascular Disease 0.89 0.68
Diabetes 0.88 0.40
Chronic Lung Disease 0.69 0.47
Pneumonia/Influenza 0.28 0.19
10 8 6 4 2 0 2 4 6 8 10
MALE
FEMALE

Note: Causes of death are ordered by total deaths (Table 35).
PYLLSR-PYLL Standardized Rate per 1,000 population.

HIGHLIGHTS TO TABLE 35/FIGURE 20

- In 2002, there were 274 deaths in the under 15 year age group, 164 young men and 110 young women. These deaths resulted in a total of 19,649 potential years of life lost (PYLL). Perinatal conditions and congenital anomalies accounted for 34.1% and 18.4% of PYLL, respectively. The Potential Years of Life Lost Standardized Rate (PYLLSR) in this age group was 7.00 years of life lost per 1,000 standard population in the age group.
- In the 15-24 age group, a total of 16,548 potential years of life were lost from the 303 deaths in 2002, resulting in a PYLLSR of 4.47 potential years of life lost per 1,000 standard population in this age group. Males accounted for 208 of these deaths and had twice the PYLLSR (6.04) than females (2.86). Motor vehicle accidents were a major cause of death in this age group, responsible for 94 deaths and 5,135 PYLL.
- In the 'prime of life' 25-44 age group, there were 1,223 deaths in 2002, producing a total of 45,968 potential years of life lost and a PYLL standardized rate of 12.51 PYLL per 1,000 standard population in this age group. Among the 832 male deaths, the highest PYLL standardized rates were for suicide (2.28) and motor vehicle accidents (2.21). For the 391 female deaths, the highest PYLLSR was for cancer (2.02). The PYLLSR for males (17.20) was more than twice the rate for females (7.81).
- In the 45-74 age group, the 9,393 deaths resulted in a total of 104,138 potential years of life lost in 2002, and a PYLLSR of 21.97 per 1,000 standard population in this age group. Cancer was the leading cause of death in this category; the 4,029 deaths from cancer were responsible for a total of 43,753 potential years of life lost, and a PYLLSR of 9.32. As in other age groups, the PYLLSR for males (27.06) was considerably higher than for females (16.97).

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA
EXTERNAL CAUSES OF DEATH (AGE UNDER 75 YEARS)

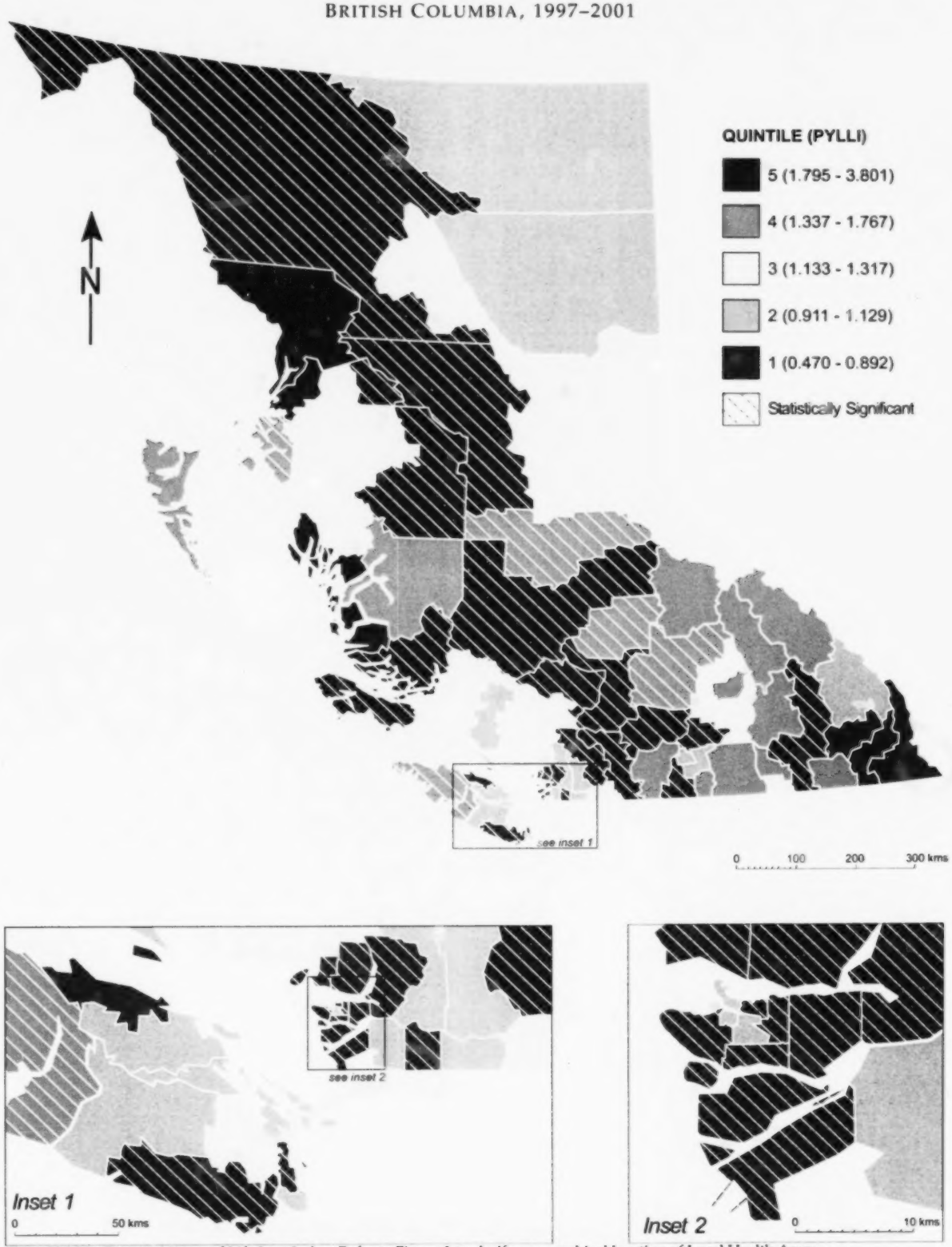
Local Health Area		1997–2001 Observed Deaths	1997–2001 Observed PYLL	1997–2001 PYLL Index (p)		2002 Observed Deaths	2002 Observed PYLL	2002 Expected PYLL	2002 PYLL Index (p)		2002 95% Confidence Limit Lower		2002 95% Confidence Limit Upper
001	Fernie	27	988	0.89		8	295	163.21	1.81		0.43	-	3.19
002	Cranbrook	51	1,533	0.89		9	248	240.42	1.03		0.27	-	1.79
003	Kimberley	16	400	0.71		1	53	78.06	0.68		0.00	-	2.00
004	Windermere	15	625	1.02		6	250	93.42	2.68		0.47	-	4.89
005	Creston	34	1,105	1.53		5	143	97.89	1.46		0.00	-	2.92
006/007	Kootenay Lake/Nelson	96	3,439	1.80	*	9	248	262.78	0.94		0.18	-	1.70
009	Castlegar	37	1,303	1.43		5	188	124.27	1.51		0.04	-	2.98
010	Arrow Lakes	13	488	1.49		1	58	44.92	1.29		0.00	-	3.80
011	Trail	49	1,732	1.32		9	303	180.09	1.68		0.48	-	2.88
012/013	Grand Forks/Kettle Valley	38	1,187	1.49		5	153	108.64	1.41		0.08	-	2.73
014	Southern Okanagan	42	1,295	1.35		9	263	133.16	1.98		0.61	-	3.34
015	Penticton	75	2,203	0.95		14	612	319.74	1.91		0.87	-	2.96
016	Keremeos	17	653	2.50	*	5	183	37.57	4.87		0.31	-	9.43
017	Princeton	17	498	1.73		4	175	37.02	4.73		0.00	-	9.62
018	Golden	17	743	1.34		5	138	79.22	1.74		0.00	-	3.52
019	Revelstoke	24	940	1.55		4	100	83.85	1.19		0.00	-	2.50
020	Salmon Arm	73	2,417	1.27		10	155	271.65	0.57	*	0.17	-	0.97
021	Armstrong-Spallumcheen	19	758	1.21		4	180	89.12	2.02		0.01	-	4.03
022	Vernon	132	4,405	1.19		24	685	522.93	1.31		0.71	-	1.91
023	Central Okanagan	244	7,670	0.80	*	45	1,368	1,370.73	1.00		0.67	-	1.33
024	Kamloops	283	9,817	1.40	*	62	2,165	982.10	2.20	*	1.60	-	2.81
025	100 Mile House	51	1,607	1.66	*	8	255	128.03	1.99		0.50	-	3.49
026	North Thompson	17	610	1.69		4	150	50.15	2.99		0.00	-	6.21
027	Cariboo-Chilcotin	118	4,312	2.08	*	16	540	285.49	1.89		0.89	-	2.90
028	Quesnel	81	2,504	1.37	*	19	673	248.32	2.71	*	1.37	-	4.05
029	Lillooet	22	700	2.08	*	3	83	47.66	1.74		0.00	-	3.94
030	South Cariboo	27	998	2.04	*	6	130	69.51	1.87		0.00	-	3.80
031	Merritt	62	2,285	2.93	*	6	175	107.75	1.62		0.00	-	3.27
032	Hope	39	1,183	2.21	*	1	43	76.83	0.56		0.00	-	1.64
033	Chilliwack	158	5,289	1.16		28	825	662.17	1.25		0.73	-	1.76
034	Abbotsford	237	8,624	1.08		23	808	1,179.06	0.69	*	0.38	-	0.99
035	Langley	180	6,333	0.81	*	21	743	1,093.63	0.68	*	0.36	-	1.00
036	Surrey	653	23,733	0.94		85	3,053	3,788.95	0.81	*	0.62	-	0.99
037	Delta	95	3,263	0.47	*	19	568	961.25	0.59	*	0.28	-	0.90
038	Richmond	169	5,652	0.48	*	18	600	1,749.82	0.34	*	0.16	-	0.53
040	New Westminster	148	4,760	1.15		13	353	573.79	0.62	*	0.24	-	0.99
041	Burnaby	295	10,034	0.70	*	31	913	2,082.34	0.44	*	0.26	-	0.62
042	Maple Ridge	140	4,965	0.91		25	798	821.01	0.97		0.56	-	1.38
043	Coquitlam	229	8,200	0.59	*	28	885	2,072.13	0.43	*	0.25	-	0.60
044	North Vancouver	154	5,340	0.58	*	22	602	1,297.41	0.46	*	0.25	-	0.68
045	West Vancouver-Bowen Is.	50	1,460	0.51	*	9	293	417.24	0.70		0.21	-	1.20
046	Sunshine Coast	63	1,998	1.26		3	48	225.16	0.21	+	0.00	-	0.52
047	Powell River	40	1,180	0.91		5	128	178.45	0.72		0.06	-	1.37
048	Howe Sound	80	3,150	1.28		19	703	340.09	2.07	*	1.06	-	3.07
049	Bella Coola Valley	17	413	1.65		6	220	35.48	6.20		0.91	-	11.49
050	Queen Charlotte	25	702	1.77		4	70	52.94	1.32		0.00	-	2.70
051	Snow Country	6	170	2.73		3	143	8.19	17.46		0.00	-	37.36
052	Prince Rupert	60	2,140	1.67	*	11	288	167.70	1.72		0.66	-	2.77
053	Upper Skeena	23	873	2.07	*	2	65	56.95	1.14		0.00	-	3.00
054	Smithers	40	1,572	1.18		9	398	180.42	2.21		0.68	-	3.73
055/093	Burns Lake/Eutsuk	26	1,032	1.91	*	7	253	77.44	3.27		0.53	-	6.00
056	Nechako	70	2,901	2.27	*	12	370	176.75	2.09		0.86	-	3.33
057	Prince George	253	9,056	1.19	*	43	1,473	1,018.27	1.45		0.97	-	1.92
059	Peace River South	69	2,357	1.19		15	538	271.12	1.98		0.80	-	3.17
060	Peace River North	60	2,224	0.98		12	460	325.99	1.41		0.53	-	2.29
061	Greater Victoria	414	13,117	0.93		57	1,937	1,947.51	0.99		0.71	-	1.28
062	Sooke	82	2,849	0.76	*	9	263	530.27	0.50	*	0.14	-	0.85
063	Saanich	75	2,308	0.66	*	10	280	500.23	0.56	*	0.16	-	0.96
064	Gulf Islands	23	723	0.96		3	118	109.99	1.07		0.00	-	2.32
065	Cowichan	103	3,787	1.15		21	900	462.33	1.95	*	1.08	-	2.81
066	Lake Cowichan	11	383	0.93		1	48	56.97	0.84		0.00	-	2.48
067	Ladysmith	35	1,063	1.08		7	293	138.86	2.11		0.44	-	3.78
068	Nanaimo	192	6,358	1.05		24	780	845.48	0.92		0.53	-	1.32
069	Qualicum	56	1,705	0.82		14	425	298.44	1.42		0.56	-	2.29
070	Alberni	94	3,434	1.59	*	16	575	292.88	1.96		0.90	-	3.03
071	Courtenay	125	4,468	1.21		22	645	517.83	1.25		0.64	-	1.85
072/084	Campbell River/V.I. West	110	3,755	1.24		22	770	405.43	1.90	*	1.03	-	2.77
075	Mission	83	2,663	1.04		14	345	368.49	0.94		0.34	-	1.53
076	Agassiz-Harrison	30	1,115	1.99	*	1	23	83.15	0.28	+	0.00	-	0.81
077	Summerland	19	648	1.03		6	195	88.84	2.19		0.10	-	4.29
078	Enderby	25	793	1.74		5	168	63.87	2.63		0.15	-	5.11
080	Kitimat	26	1,020	1.13		3	133	119.23	1.12		0.00	-	2.58
081	Fort Nelson	15	573	1.13		4	155	69.03	2.25		0.01	-	4.49
083	Central Coast	7	248	1.81		3	103	18.42	5.59		0.00	-	12.59
085	Vancouver Island North	58	2,085	1.92	*	1	28	141.60	0.20	+	0.00	-	0.58
087/094	Stikine/Telegraph Creek	11	467	3.48	*	2	55	18.99	2.90		0.00	-	6.91
088	Terrace	61	2,068	1.26		15	463	215.94	2.14		0.94	-	3.35
092	Nisga'a	9	343	2.32		4	115	19.53	5.89		0.00	-	12.90
161	Vancouver City Centre	271	8,533	1.08		32	950	1,128.13	0.84		0.52	-	1.17
162	Vancouver Downtown E. Side	482	15,652	3.80	*	43	1,232	573.61	2.15	*	1.44	-	2.85
163	Vancouver North East	154	5,392	0.77	*	18	605	999.82	0.61	*	0.31	-	0.90
164	Vancouver West Side	131	4,527	0.50	*	21	703	1,276.05	0.55	*	0.28	-	0.82
165	Vancouver Midtown	176	6,150	0.92		29	968	919.92	1.05		0.64	-	1.47
166	Vancouver South	181	5,742	0.65	*	20	725	1,269.85	0.57	*	0.30	-	0.85
039	**VANCOUVER TOTAL**	**1,396**	**46,028**	**1.06**		**163**	**5,182**	**6,167.40**	**0.84**	*	**0.70**	-	**0.98**
	N.S.	23				1							
	PROVINCIAL TOTAL	**8,159**	**278,770**	**1.00**		**1,208**			**1.00**				

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. PYLL and PYLL Index: see glossary for more details. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

FIGURE 21

EXTERNAL CAUSES OF DEATH BY LOCAL HEALTH AREA (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1997–2001



Note: PYLLI - Potential Years of Life Lost Index. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 36/FIGURE 21

- There were 6 Local Health Areas (LHAs) with statistically significant and high Potential Years of Life Lost Index (PYLLI) for under 75 years of age, for external causes of death or accidents and violence, based on at least five deaths in 2002. These LHAs, along with their PYLLI values for 2002 (number of deaths in parentheses) were:

028	Quesnel	(19)	2.71
024	Kamloops	(62)	2.20
162	Vancouver Downtown E. Side	(43)	2.15
048	Howe Sound	(19)	2.07
065	Cowichan	(21)	1.95
072/084	Camp. R./V.I. West	(22)	1.90

- From the above LHAs, Quesnel, Kamloops and Vancouver Downtown E. Side also had statistically significant and high PYLLI values for external causes of death (age under 75 years) in 1997-2001.
- 15 LHAs had PYLLI values for external causes in 2002 that were statistically significant and low, based on five or more deaths. The PYLLI for the five lowest LHAs (number of deaths in parentheses) were:

038	Richmond	(18)	0.34
043	Coquitlam	(28)	0.43
041	Burnaby	(31)	0.44
044	North Vancouver	(22)	0.46
062	Sooke	(9)	0.50

- All of the above LHAs also had statistically significant and low PYLLI values for external causes of death (age under 75 years) in 1997-2001.
- In the 1997-2001 period, a total of 20 LHAs had PYLLI values for external causes that were statistically significant and high. The five LHAs with the highest statistically significant index values for this five-year period (number of deaths in parentheses) were:

162	Vancouver. Downtown E. Side	(482)	3.80
087/094	Stikine/Telegraph Cr.	(11)	3.48
031	Merritt	(62)	2.93
016	Keremeos	(17)	2.50
056	Nechako	(70)	2.27

- In the 1997-2001 period, 13 LHAs had PYLLI values for external causes that were statistically significant and low, based on five or more deaths. The five LHAs with the lowest index values that were statistically significant for this five-year period (number of deaths in parentheses) were:

037	Delta	(95)	0.47
038	Richmond	(169)	0.48
164	Vancouver West Side	(131)	0.50
045	West Vancouver-Bowen Is.	(50)	0.51
044	North Vancouver	(154)	0.58

TABLE 37
DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY SELECTED CAUSES AND GENDER
BRITISH COLUMBIA, 1997–2001 AND 2002

Cause of Death	ICD-10 Code(s)	1997–2001		2002					
				Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hypertensive disease	I10-I15	85	13.4	19	30.6	8	12.1	27	21.1
Cervical cancer	C53	146	23.0	-	-	25	37.9	25	19.5
Pneumonia and unqualified bronchitis	J12-J18.1, J18.8-J18.9, J40	143	22.6	10	16.1	9	13.6	19	14.8
Tuberculosis	A15-A19, B90	18	2.8	2	3.2	-	-	2	1.6
Asthma	J45, J46	32	5.0	4	6.5	3	4.5	7	5.5
Chronic rheumatic heart disease	I05-I09	9	1.4	1	1.6	1	1.5	2	1.6
Acute respiratory infections and influenza	J00-J06, J20-J22, J10-J11	5	0.8	-	-	-	-	-	-
Bacterial infections*	A00-A05, ..., M87.1	153	24.1	23	37.1	15	22.7	38	29.7
Hodgkin's disease	C81	12	1.9	1	1.6	2	3.0	3	2.3
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis	K40-K46, K80-K81, K35-K37	31	4.9	2	3.2	2	3.0	4	3.1
Deficiency nutritional anemias	D50-D53	-	-	-	-	1	1.5	1	0.8
TOTAL		**634**	**100.0**	**62**	**100.0**	**66**	**100.0**	**128**	**100.0**

Note: Medically Treatable Diseases based on Charlton's definition (see Glossary).
*ICD-10 codes A00–A05, A20–A49, B95–B96, G00, H66, H70, H95.0–H95.1, I00–I01, I02.0, I02.9, L01–L08, M00, M02.8–M02.9, M46.2, M86, M87.1.
Total percentage may not add up to 100 due to rounding.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

HIGHLIGHTS TO TABLE 37

- The medically treatable diseases presented in this table were selected according to Charlton's definition based on mortality in specific age groups that could potentially be avoided through appropriate medical attention (see Glossary). There were 128 deaths in 2002 that were identified as medically treatable according to this definition.
- Females accounted for 66 deaths from medically treatable diseases in 2002. Of the female deaths, almost three in seven (37.9%) were due to cervical cancer (25 deaths), more than one fifth (22.7%) were due to bacterial infections (15), and about one in seven (13.6%) were due to pneumonia and unqualified bronchitis (9). In comparison, there were 62 male deaths (48.4%) from medically treatable diseases. In total, over a third (37.1%) of these male deaths were from bacterial infections (23), almost a third (30.6%) were due to hypertensive disease (19), and one in six (16.1%) were from pneumonia and unqualified bronchitis (10).
- In the 1997-2001 period, three categories accounted for seven in ten (69.7% of the 634 deaths from medically treatable diseases. These were cervical cancer (146 deaths), pneumonia and unqualified bronchitis (143), and bacterial infections (153).

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA DEATHS DUE TO SELECTED MEDICALLY TREATABLE DISEASES

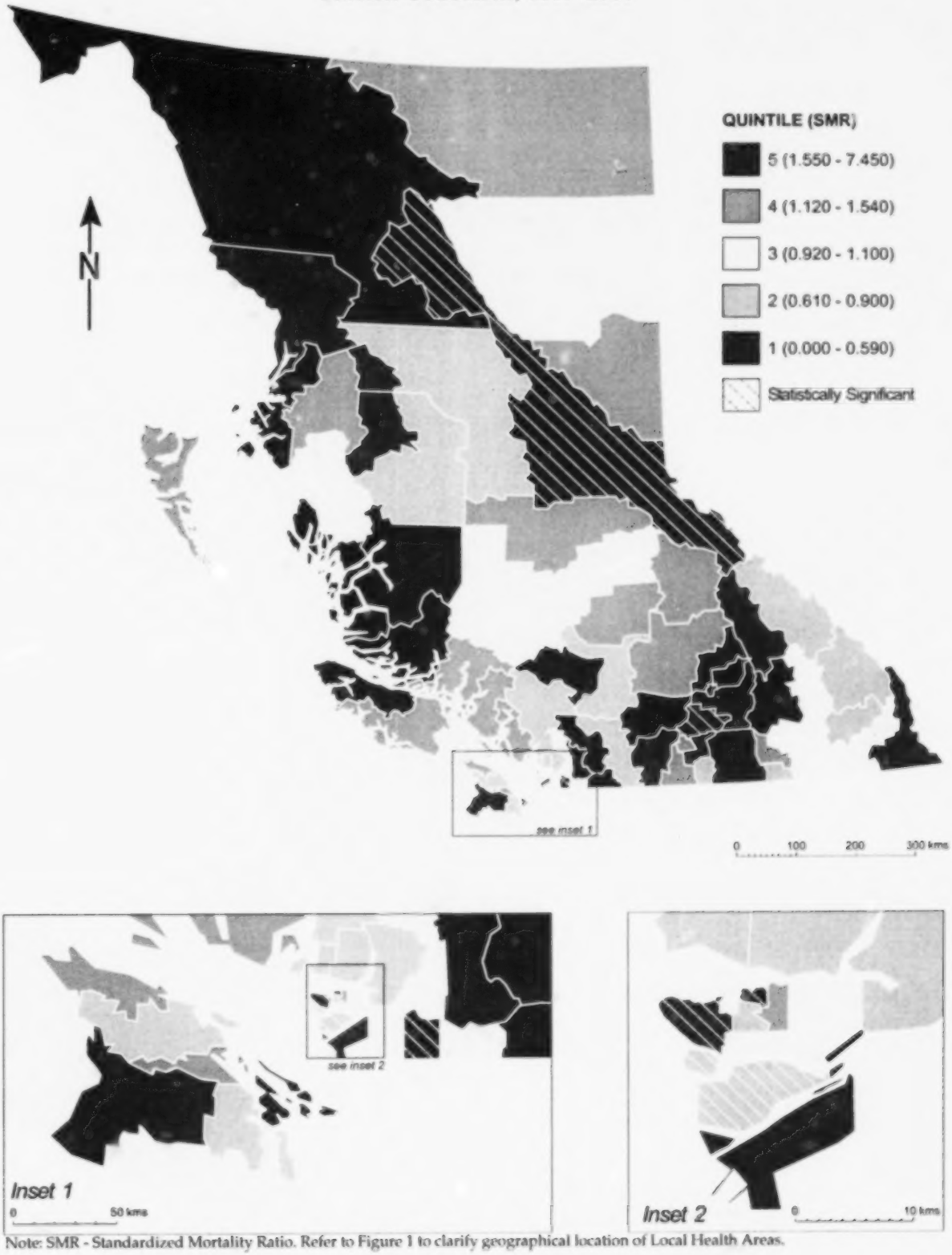
Local Health Area		1997–2001 Observed Deaths	1997–2001 SMR (p)		2002 Observed Deaths	2002 Expected Deaths	2002 SMR (p)		2002 95% Confidence Interval Lower		2002 95% Confidence Interval Upper
001	Fernie	1	0.39		-	0.53	-		-	-	-
002	Cranbrook	4	0.99		3	0.82	3.65		0.73	-	10.67
003	Kimberley	1	0.68		-	0.31	-		-	-	-
004	Windermere	1	0.67		2	0.32	6.26		0.70	-	22.62
005	Creston	2	0.99		-	0.40	-		-	-	-
006/007	Kootenay Lake/Nelson	5	1.07		-	0.93	-		-	-	-
009	Castlegar	3	1.36		-	0.44	-		-	-	-
010	Arrow Lakes	2	2.25		-	0.19	-		-	-	-
011	Trail	2	0.61		1	0.66	1.51		0.02	-	8.41
012/013	Grand Forks/Kettle Valley	1	0.46		1	0.44	2.28		0.03	-	12.70
014	Southern Okanagan	2	0.70		1	0.57	1.74		0.02	-	9.70
015	Penticton	2	0.33		1	1.20	0.83		0.01	-	4.62
016	Keremeos	1	1.24		-	0.17	-		-	-	-
017	Princeton	-	-		-	0.18	-		-	-	-
018	Golden	1	0.86		1	0.23	4.36		0.06	-	24.28
019	Revelstoke	-	-		-	0.27	-		-	-	-
020	Salmon Arm	3	0.59		1	1.06	0.94		0.01	-	5.25
021	Armstrong-Spallumcheen	-	-		-	0.32	-		-	-	-
022	Vernon	5	0.54		4	1.89	2.11		0.57	-	5.41
023	Central Okanagan	10	0.43	*	6	4.76	1.26		0.46	-	2.74
024	Kamloops	21	1.27		5	3.31	1.51		0.49	-	3.53
025	100 Mile House	3	1.14		1	0.52	1.91		0.02	-	10.60
026	North Thompson	1	1.20		-	0.17	-		-	-	-
027	Cariboo-Chilcotin	5	1.10		-	0.90	-		-	-	-
028	Quesnel	6	1.46		-	0.81	-		-	-	-
029	Lillooet	2	2.67		-	0.15	-		-	-	-
030	South Cariboo	1	0.77		-	0.28	-		-	-	-
031	Merritt	3	1.67		1	0.36	2.78		0.04	-	15.47
032	Hope	1	0.73		-	0.29	-		-	-	-
033	Chilliwack	16	1.55		2	2.09	0.96		0.11	-	3.46
034	Abbotsford	17	1.02		5	3.35	1.49		0.48	-	3.48
035	Langley	28	1.60	*	-	3.48	-		-	-	-
036	Surrey	55	1.00		17	11.61	1.46		0.85	-	2.34
037	Delta	9	0.55		1	3.27	0.31		0.00	-	1.70
038	Richmond	17	0.61	*	2	5.71	0.35		0.04	-	1.27
040	New Westminster	15	1.68		4	1.82	2.20		0.59	-	5.62
041	Burnaby	30	0.96		4	6.28	0.64		0.17	-	1.63
042	Maple Ridge	11	0.92		2	2.50	0.80		0.09	-	2.89
043	Coquitlam	23	0.74		2	6.36	0.31		0.04	-	1.14
044	North Vancouver	17	0.78		5	4.36	1.15		0.37	-	2.68
045	West Vancouver-Bowen Is.	7	0.84		2	1.75	1.14		0.13	-	4.13
046	Sunshine Coast	5	1.14		-	0.94	-		-	-	-
047	Powell River	5	1.49		2	0.69	2.89		0.32	-	10.42
048	Howe Sound	4	0.90		-	0.87	-		-	-	-
049	Bella Coola Valley	3	5.83	+	-	0.10	-		-	-	-
050	Queen Charlotte	1	1.17		-	0.17	-		-	-	-
051	Snow Country	-	-		-	0.03	-		-	-	-
052	Prince Rupert	5	1.89		1	0.51	1.97		0.03	-	10.97
053	Upper Skeena	-	-		-	0.16	-		-	-	-
054	Smithers	1	0.37		-	0.52	-		-	-	-
055/093	Burns Lake/Eutsuk	1	0.87		-	0.23	-		-	-	-
056	Nechako	2	0.77		-	0.50	-		-	-	-
057	Prince George	25	1.57	*	6	3.04	1.97		0.72	-	4.29
059	Peace River South	6	1.42		-	0.80	-		-	-	-
060	Peace River North	4	0.94		2	0.82	2.45		0.28	-	8.85
061	Greater Victoria	33	1.04		9	6.23	1.44		0.66	-	2.74
062	Sooke	8	0.92		1	1.76	0.57		0.01	-	3.17
063	Saanich	6	0.61		1	2.07	0.48		0.01	-	2.69
064	Gulf Islands	-	-		1	0.56	1.79		0.02	-	9.96
065	Cowichan	6	0.73		1	1.65	0.61		0.01	-	3.37
066	Lake Cowichan	-	-		1	0.21	4.83		0.06	-	26.89
067	Ladysmith	4	1.54		-	0.54	-		-	-	-
068	Nanaimo	13	0.90		1	2.96	0.34		0.00	-	1.88
069	Qualicum	8	1.25		-	1.37	-		-	-	-
070	Alberni	5	0.96		1	1.04	0.96		0.01	-	5.37
071	Courtenay	10	1.05		-	1.91	-		-	-	-
072/084	Campbell River/V.I. West	8	1.13		2	1.40	1.43		0.16	-	5.17
075	Mission	9	1.60		1	1.14	0.88		0.01	-	4.90
076	Agassiz-Harrison	2	1.64		-	0.26	-		-	-	-
077	Summerland	2	1.12		1	0.36	2.75		0.04	-	15.32
078	Enderby	2	1.72		-	0.23	-		-	-	-
080	Kitimat	2	1.01		-	0.38	-		-	-	-
081	Fort Nelson	1	1.16		-	0.16	-		-	-	-
083	Central Coast	2	7.45		-	0.05	-		-	-	-
085	Vancouver Island North	4	1.71		3	0.45	6.62	+	1.33	-	19.34
087/094	Stikine/Telegraph Creek	1	3.32		-	0.06	-		-	-	-
088	Terrace	4	1.17		-	0.63	-		-	-	-
092	Nisga'a	1	3.73		-	0.05	-		-	-	-
161	Vancouver City Centre	14	0.92		6	3.09	1.94		0.71	-	4.23
162	Vancouver Downtown E. Side	36	4.23	*	9	1.71	5.26	*	2.40	-	9.99
163	Vancouver North East	19	1.27		3	2.91	1.03		0.21	-	3.01
164	Vancouver West Side	9	0.46	*	-	3.83	-		-	-	-
165	Vancouver Midtown	11	0.80		1	2.64	0.38		0.00	-	2.10
166	Vancouver South	18	0.92		1	3.89	0.26		0.00	-	1.43
039	**VANCOUVER TOTAL**	**107**	**1.17**		**20**	**18.07**	**1.11**		**0.68**	-	**1.71**
	PROVINCIAL TOTAL	**634**	**1.00**		**128**		**1.00**				

Note: Medically Treatable Diseases – based on Charlton's definition (see Glossary). *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). +Denotes significance based on less than five deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

FIGURE 22

DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997–2001



Note: SMR - Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 38/FIGURE 22

- The deaths identified as medically treatable (see Glossary) occurred across the province, although the numbers were relatively small in Local Health Areas (LHAs) outside the lower mainland. In 2002 there was one LHA with a statistically significant and high Standardized Mortality Ratio (SMR) for medically treatable diseases based on five or more deaths from medically treatable diseases. 162 Vancouver Downtown E. Side had 9 deaths and an SMR of 5.26 in 2002.
- There were no LHAs with statistically significant and low SMRs for medically treatable diseases in 2002.
- In 2002, 39 LHAs had no deaths due to medically treatable diseases. The small number of deaths from medically treatable diseases in any individual year limits the scope for analysis.
- Over the 1997-2001 period, there were three LHAs with SMRs that were statistically significant and high for deaths due to medically treatable diseases (based on five or more deaths). The ratios for these LHAs (with number of medically treatable deaths in parentheses) were:

162 Van. Downtown E. Side	(36)	4.23
035 Langley	(28)	1.60
057 Prince George	(25)	1.57

- There were three LHAs with statistically significant and low SMRs for deaths due to medically treatable diseases during the 1997-2001 period:

023 Central Okanagan	(10)	0.43
164 Vancouver West Side	(9)	0.46
038 Richmond	(17)	0.61

- Seven LHAs had no deaths from medically treatable diseases during the 1997-2001 period.

TABLE 39
ALCOHOL-RELATED DEATHS BY CAUSE
BRITISH COLUMBIA, 1997–2001 AND 2002

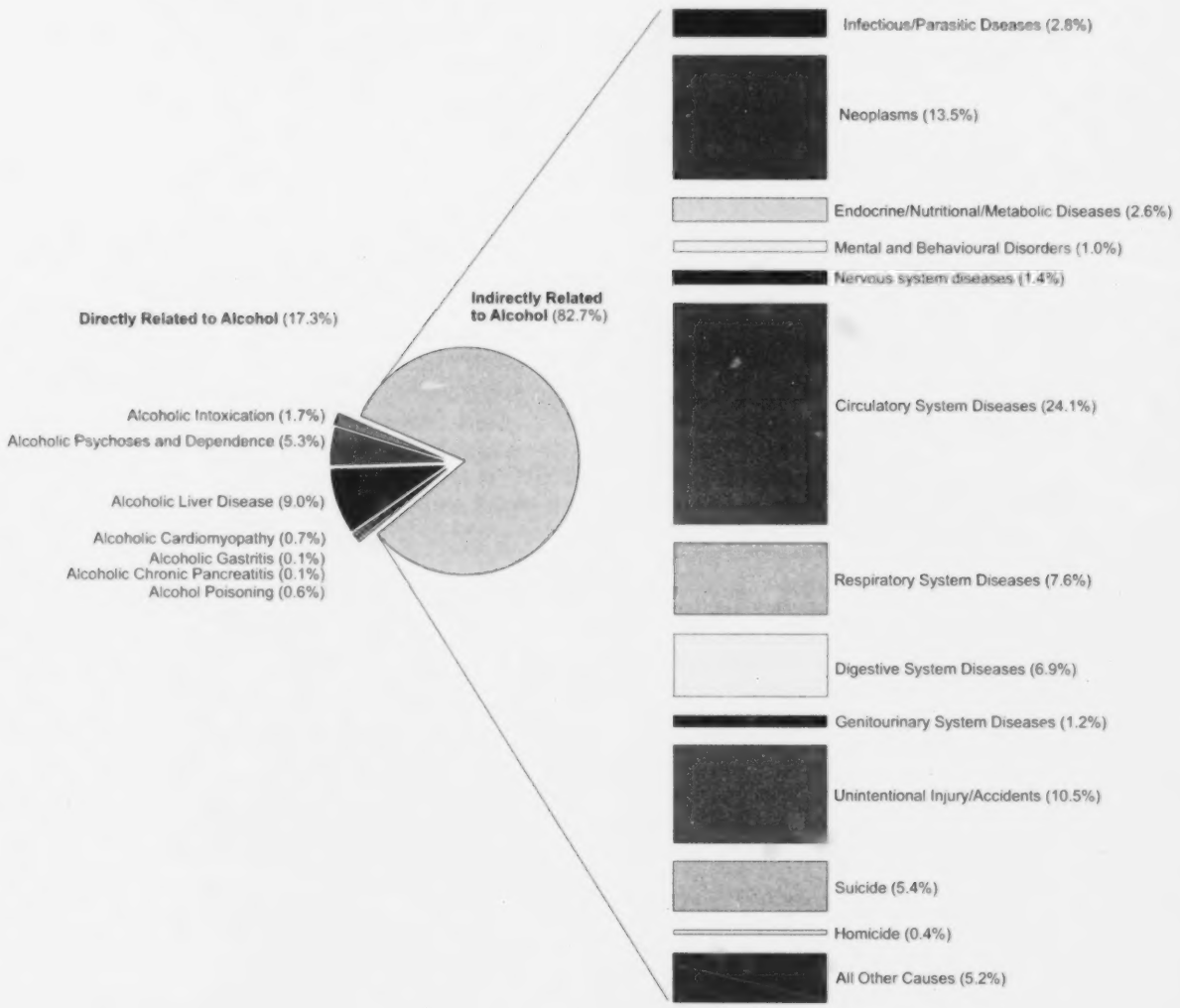
Cause of Death	ICD-10 Code(s)	Year of Death: 1997–2001 Number	1997–2001 Percent	2002 Number	2002 Percent
Directly Related to Alcohol					
Alcoholic intoxication	F10.0-F10.1	123	1.4	30	1.7
Alcoholic psychoses and dependence	F10.2-F10.9	524	5.8	96	5.3
Alcoholic liver disease	K70	740	8.1	163	9.0
Alcoholic neurological disorders	G31.2, G62.1, G72.1	-	-	-	-
Alcoholic cardiomyopathy	I42.6	117	1.3	13	0.7
Alcoholic gastritis	K29.2	14	0.2	1	0.1
Alcoholic chronic pancreatitis	K86.0	11	0.1	2	0.1
Alcohol poisoning	X45, X65	102	1.1	10	0.6
Other causes	E24.4, O35.4, P04.3, Q86.0, R78.0, T51.0-T51.2, T51.9	-	-	-	-
Subtotal		**1,631**	**17.9**	**315**	**17.3**
Indirectly Related to Alcohol[1]					
Infectious/parasitic diseases	A00-B99	196	2.2	50	2.8
Neoplasms	C00-D48	1,212	13.3	246	13.5
Endocrine/nutritional/metabolic diseases	E00-E24.3, E24.8-E89	225	2.5	47	2.6
Mental and behavioural disorders	F00-F09, F11-F99	80	0.9	19	1.0
Nervous system diseases	G00-G31.1, G31.8-G62.0, G62.2-G72.0, G72.2-G99	124	1.4	25	1.4
Circulatory system diseases	I00-I42.5, I42.7-I99	2,082	22.9	438	24.1
Respiratory system diseases	J00-J99	706	7.8	138	7.6
Digestive system diseases	K00-K29.1, K29.3-K69, K71.0-K85, K86.1-K92	600	6.6	126	6.9
Genitourinary system diseases	N00-N39, N99.0-N99.1, N99.5	83	0.9	22	1.2
Unintentional injury/accidents	V01-X44, X46-X59, Y40-Y86, Y88	1,406	15.4	191	10.5
Suicide	X60-X64, X66-X84, Y87.0	535	5.9	99	5.4
Homicide	X85-Y09, Y87.1	50	0.5	7	0.4
All other causes		174	1.9	95	5.2
Subtotal		**7,473**	**82.1**	**1,503**	**82.7**
TOTAL		**9,104**	**100.0**	**1,818**	**100.0**

Note: Alcohol-related deaths – see Glossary for more details.
[1]ICD-10 codes for indirectly related to alcohol exclude the codes for directly related to alcohol and will not match the list of codes used for these categories in other tables.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 23

ALCOHOL-RELATED DEATHS BY CAUSE

BRITISH COLUMBIA, 2002



See Table 39 for ICD-10 codes for each category.

HIGHLIGHTS TO TABLE 39/FIGURE 23

Deaths that are 'directly' related to alcohol are identified by specific underlying causes of death that involve alcohol. Deaths 'indirectly' related to alcohol do not have an alcohol-related underlying cause of death, but alcohol was noted somewhere on the *Medical Certification of Death*.

- There were 1,818 deaths that were directly or indirectly related to alcohol in 2002 and 9,104 deaths in the five-year period, 1997-2001.
- In 2002, 315 deaths (17.3%) were directly related to alcohol, which is based on the underlying cause of death. In the 1997-2001 period, 1,631 deaths or 17.9% of alcohol-related deaths were directly related to alcohol.
- In 2002, alcoholic liver disease accounted for more than half (51.7%) of the direct deaths from alcohol, higher than the proportion shown for 1997-2001 (45.4%). Alcoholic psychoses and dependence was the next largest category of deaths directly related to alcohol.
- There were 1,503 deaths (82.7%) indirectly related to alcohol in 2002. Circulatory system diseases were the largest category of deaths indirectly related to alcohol, accounting for almost three out of ten of the indirect deaths (29.1%) in 2002 and a slightly lower proportion (27.9%) in 1997-2001. Other large causes of death in the indirect group were neoplasms, unintentional injury/accidents, and respiratory system diseases.

TABLE 40
ALCOHOL-RELATED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 2002

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	1	0.1	-	-	1	0.1
15-19	7	0.5	3	0.7	10	0.6
20-24	14	1.0	8	1.9	22	1.2
25-44	186	13.4	55	12.8	241	13.3
45-64	540	38.9	143	33.3	683	37.6
65-84	572	41.2	176	40.9	748	41.1
85+	68	4.9	45	10.5	113	6.2
TOTAL	**1,388**	**100.0**	**430**	**100.0**	**1,818**	**100.0**

Note: Alcohol-related deaths – see Table 39 for ICD-10 codes and Glossary for more details.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality.
With the introduction of ICD-10 in 2000, more specific codes are available.
Currently produced data should not be used in combination with data produced prior to 2000.

HIGHLIGHTS TO TABLE 40

- There were 1,818 alcohol-related deaths in 2002.
- Out of every 100 alcohol-related deaths in 2002 approximately:
  - 76 were males (1,388)
  - 24 were females (430)
- About one half (47.3 %) of all alcohol related deaths were seniors (748 deaths aged 65-84 and 113 aged 85+) and a third (37.6%) were aged 45-64 (683 deaths).
- The proportions of alcohol-related deaths by age groups were similar for males and females.

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA, ALCOHOL-RELATED DEATHS

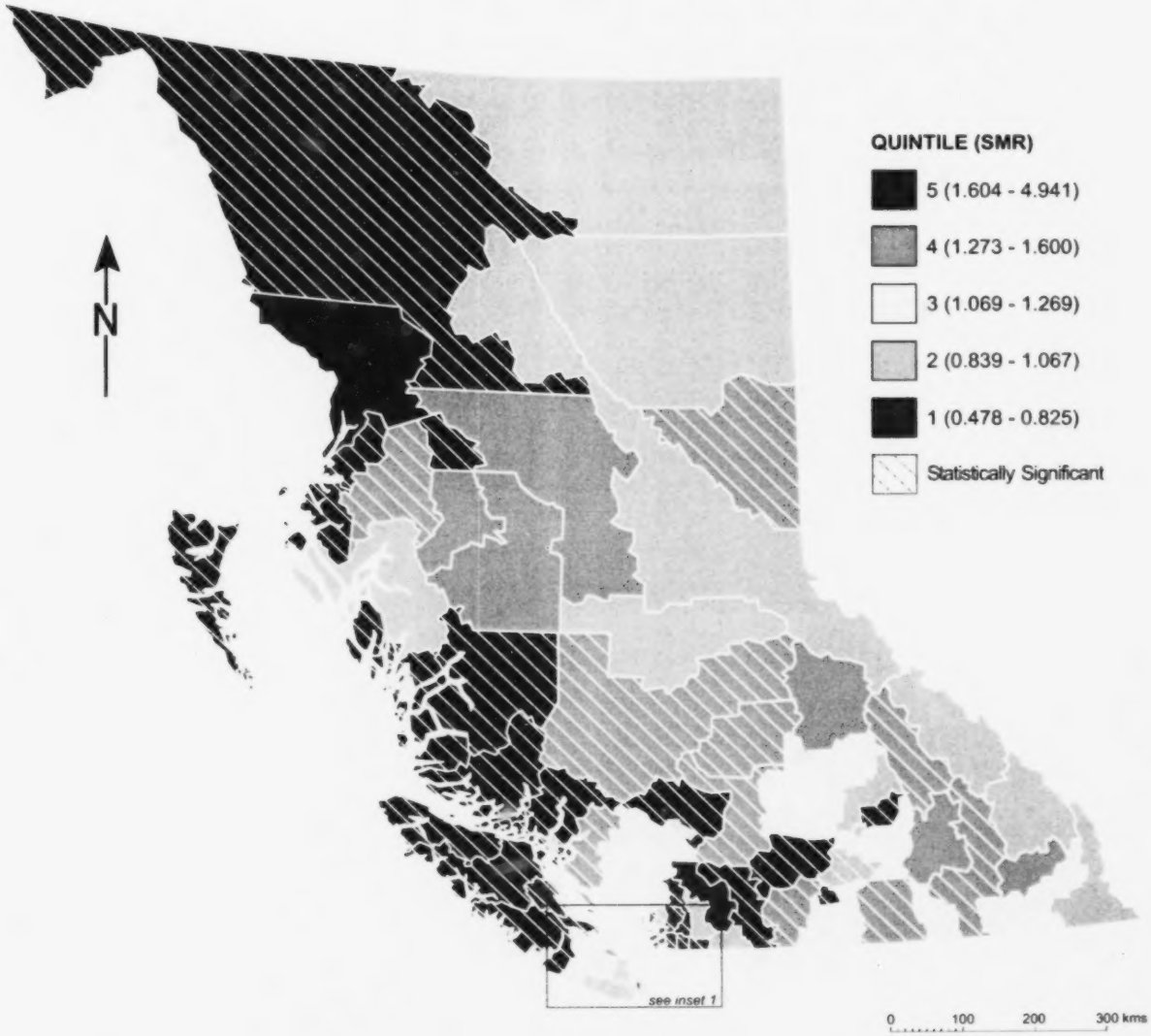
Local Health Area		1997–2001 Observed Deaths	1997–2001 SMR	(p)	2002 Observed Deaths	2002 Expected Deaths	2002 SMR	(p)	95% Confidence Interval Lower	95% Confidence Interval Upper
001	Fernie	28	0.89		10	6.39	1.56		0.75	2.88
002	Cranbrook	70	1.24		15	11.44	1.31		0.73	2.16
003	Kimberley	34	1.39		9	4.83	1.86		0.85	3.53
004	Windermere	19	0.92		8	4.34	1.84		0.79	3.63
005	Creston	42	1.07		12	7.55	1.59		0.82	2.78
006/007	Kootenay Lake/Nelson	94	1.38	*	17	13.32	1.28		0.74	2.04
009	Castlegar	40	1.23		9	6.37	1.41		0.65	2.68
010	Arrow Lakes	21	1.47		3	2.84	1.06		0.21	3.09
011	Trail	58	1.07		20	10.36	1.93	*	1.18	2.98
012/013	Grand Forks/Kettle Valley	52	1.39	*	6	7.29	0.82		0.30	1.79
014	Southern Okanagan	82	1.22		14	13.18	1.06		0.58	1.78
015	Penticton	157	1.27	*	29	24.41	1.19		0.80	1.71
016	Keremeos	19	1.15		1	3.32	0.30		0.00	1.68
017	Princeton	24	1.60	*	3	2.97	1.01		0.20	2.95
018	Golden	14	0.99		4	2.79	1.43		0.39	3.67
019	Revelstoke	28	1.55	*	2	3.56	0.56		0.06	2.03
020	Salmon Arm	83	0.92		19	18.03	1.05		0.63	1.65
021	Armstrong-Spallumcheen	20	0.84		4	4.77	0.84		0.23	2.15
022	Vernon	181	1.18	*	38	30.99	1.23		0.87	1.68
023	Central Okanagan	354	0.89	*	73	80.59	0.91		0.71	1.14
024	Kamloops	283	1.22	*	75	46.28	1.62	*	1.27	2.03
025	100 Mile House	57	1.48	*	7	7.67	0.91		0.37	1.88
026	North Thompson	14	1.38		2	2.05	0.98		0.11	3.53
027	Cariboo-Chilcotin	87	1.59	*	24	11.16	2.15	*	1.38	3.20
028	Quesnel	51	0.95		15	10.59	1.42		0.79	2.34
029	Lillooet	29	2.94	*	8	1.98	4.03	*	1.74	7.95
030	South Cariboo	31	1.55	*	12	4.11	2.92	*	1.51	5.10
031	Merritt	55	2.19	*	11	5.00	2.20	*	1.10	3.94
032	Hope	45	1.98	*	2	4.67	0.43		0.05	1.55
033	Chilliwack	153	0.90		32	34.19	0.94		0.64	1.32
034	Abbotsford	139	0.55	*	36	51.51	0.70	*	0.49	0.97
035	Langley	168	0.69	*	34	48.43	0.70	*	0.49	0.98
036	Surrey	561	0.74	*	111	159.66	0.70	*	0.57	0.84
037	Delta	123	0.57	*	30	42.97	0.70	*	0.47	1.00
038	Richmond	165	0.48	*	33	68.41	0.48	*	0.33	0.68
040	New Westminster	162	1.26	*	39	25.33	1.54	*	1.09	2.11
041	Burnaby	351	0.81	*	61	85.33	0.71	*	0.55	0.92
042	Maple Ridge	125	0.82	*	24	31.90	0.75		0.48	1.12
043	Coquitlam	254	0.72	*	39	72.49	0.54	*	0.38	0.74
044	North Vancouver	250	0.87	*	36	57.43	0.63	*	0.44	0.87
045	West Vancouver-Bowen Is.	72	0.49	*	20	28.86	0.69		0.42	1.07
046	Sunshine Coast	90	1.21		4	14.96	0.27	+	0.07	0.68
047	Powell River	73	1.36	*	19	10.75	1.77	*	1.06	2.76
048	Howe Sound	55	1.14		10	9.74	1.03		0.49	1.89
049	Bella Coola Valley	13	2.10	*	3	1.25	2.41		0.48	7.04
050	Queen Charlotte	25	2.51	*	4	1.99	2.01		0.54	5.14
051	Snow Country	3	2.01		1	0.28	3.61		0.05	20.07
052	Prince Rupert	63	1.98	*	16	6.04	2.65	*	1.51	4.30
053	Upper Skeena	32	3.37	*	4	1.84	2.17		0.58	5.56
054	Smithers	41	1.34		3	6.03	0.50		0.10	1.45
055/093	Burns Lake/Eutsuk	22	1.42		4	3.10	1.29		0.35	3.30
056	Nechako	40	1.27		11	6.21	1.77		0.88	3.17
057	Prince George	187	1.04		44	35.16	1.25		0.91	1.68
059	Peace River South	75	1.43	*	17	10.32	1.65		0.96	2.64
060	Peace River North	46	0.95		12	9.62	1.25		0.64	2.18
061	Greater Victoria	652	1.20	*	120	104.98	1.14		0.95	1.37
062	Sooke	103	0.94		20	21.87	0.91		0.56	1.41
063	Saanich	130	0.69	*	30	37.53	0.80		0.54	1.14
064	Gulf Islands	59	1.26		6	9.56	0.63		0.23	1.37
065	Cowichan	128	0.98		29	26.15	1.11		0.74	1.59
066	Lake Cowichan	19	1.24		4	2.98	1.34		0.36	3.44
067	Ladysmith	65	1.39	*	12	9.28	1.29		0.67	2.26
068	Nanaimo	256	1.12		52	46.58	1.12		0.83	1.46
069	Qualicum	80	0.60	*	9	27.63	0.33	*	0.15	0.62
070	Alberni	130	1.71	*	29	15.09	1.92	*	1.29	2.76
071	Courtenay	119	0.83	*	35	29.07	1.20		0.84	1.67
072/084	Campbell River/V.I. West	147	1.62	*	30	17.99	1.67	*	1.12	2.38
075	Mission	63	0.84		14	15.01	0.93		0.51	1.56
076	Agassiz-Harrison	13	0.68		8	3.92	2.04		0.88	4.02
077	Summerland	24	0.63	*	11	7.37	1.49		0.74	2.67
078	Enderby	31	1.63	*	3	3.77	0.79		0.16	2.32
080	Kitimat	23	1.00		4	4.45	0.90		0.24	2.30
081	Fort Nelson	7	0.86		2	1.58	1.27		0.14	4.58
083	Central Coast	12	3.83	*	5	0.56	9.01	*	2.90	21.02
085	Vancouver Island North	60	2.36	*	5	4.90	1.02		0.33	2.38
087/094	Stikine/Telegraph Creek	18	4.94	*	2	0.74	2.69		0.30	9.71
088	Terrace	60	1.49	*	16	7.80	2.05	*	1.17	3.33
092	Nisga'a	8	2.52	*	5	0.61	8.22	*	2.65	19.19
161	Vancouver City Centre	317	1.60	*	56	39.07	1.43	*	1.08	1.86
162	Vancouver Downtown E. Side	552	4.29	*	79	24.39	3.24	*	2.56	4.04
163	Vancouver North East	164	0.79	*	36	40.39	0.89		0.62	1.23
164	Vancouver West Side	133	0.50	*	35	51.82	0.68	*	0.47	0.94
165	Vancouver Midtown	183	1.07		32	33.07	0.97		0.66	1.37
166	Vancouver South	181	0.66	*	30	53.22	0.56	*	0.38	0.80
039	**VANCOUVER TOTAL**	**1,530**	**1.23**	*	**268**	**242**	**1.11**		**0.98**	**1.25**
	N.S.	7			-					
	PROVINCIAL TOTAL	**9,104**	**1.00**		**1,818**	**1,818.00**	**1.00**			

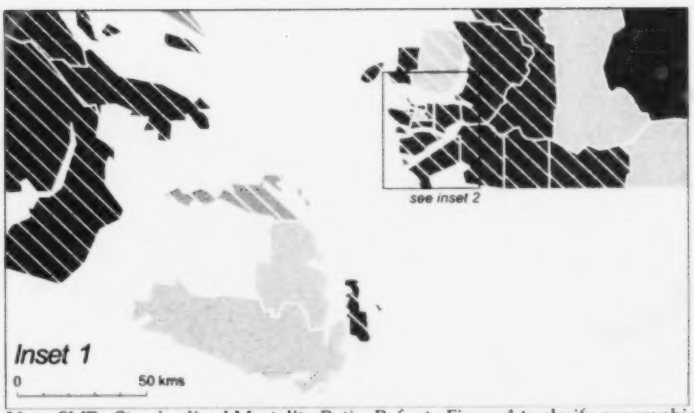
Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated. Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.

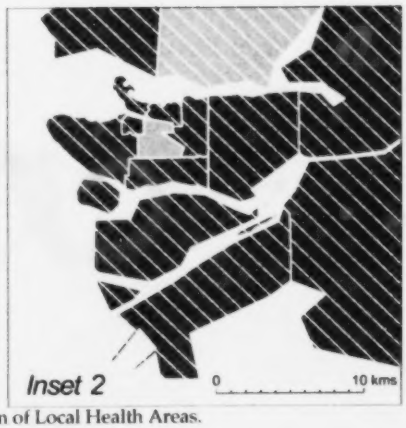
FIGURE 24

ALCOHOL-RELATED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997-2001







Note: SMR - Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 41/FIGURE 24

- There were 16 LHAs with statistically significant and high Standardized Mortality Ratios (SMRs) for alcohol-related deaths (based on five or more deaths) in 2002. The ratios for the five highest (number of deaths in parentheses) were:

083	Central Coast	(5)	9.01
092	Nisga'a	(5)	8.22
029	Lillooet	(8)	4.03
162	Van. Downtown E. Side	(79)	3.24
030	South Cariboo	(12)	2.92

- All of the above LHAs also had statistically significant and high SMRs for alcohol-related deaths in 1997-2001.

- There were 11 LHAs with statistically significant and low SMRs for alcohol-related deaths (based on five or more deaths) in 2002. The five LHAs with low SMRs (number of deaths in parentheses) were:

069	Qualicum	(9)	0.33
038	Richmond	(33)	0.48
043	Coquitlam	(39)	0.54
166	Vancouver South	(30)	0.56
044	North Vancouver	(36)	0.63

- In the 1997-2001 period, there were 32 LHAs with statistically significant and high SMRs for alcohol-related deaths. The five LHAs with the highest statistically significant SMRs (number of deaths in parentheses) were:

087/094	Stikine/Telegraph Creek	(18)	4.94
162	Van. Downtown E. Side	(552)	4.29
083	Central Coast	(12)	3.83
053	pper Skeena	(32)	3.37
029	Lillooet	(29)	2.94

- In the 1997-2001 period, there were 18 LHAs with statistically significant and low SMRs for alcohol-related deaths. The five LHAs with the lowest statistically significant SMRs (number of deaths in parentheses) were:

038	Richmond	(165)	0.48
045	est Vancouver-Bowen Is.	(72)	0.49
164	Vancouver West Side	(133)	0.50
034	Abbotsford	(139)	0.55
037	Delta	(123)	0.57

TABLE 42
SMOKING-ATTRIBUTABLE MORTALITY
BRITISH COLUMBIA, 2002

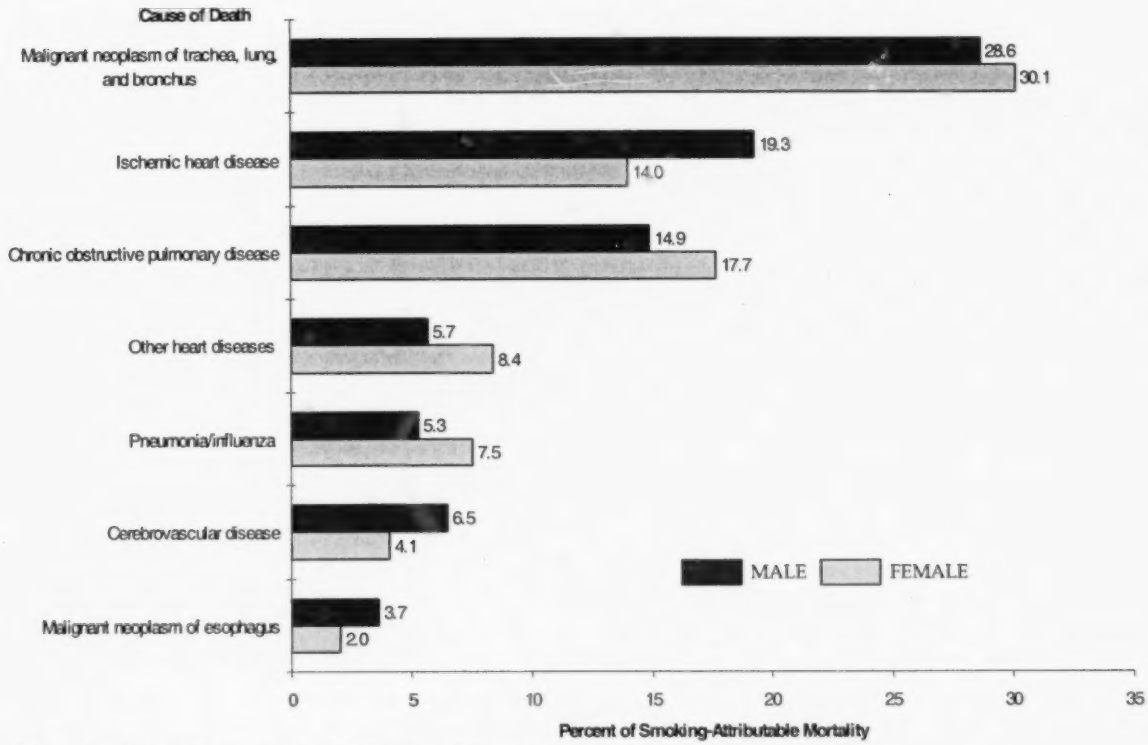
Cause of Death	ICD-10 Code(s)	Male				Female				Total		
		Deaths	SAM (%)	SAM Number	SAM Percent	Deaths	SAM (%)	SAM Number	SAM Percent	Deaths	SAM Number	SAM Percent
Malignant Neoplasms												
Malignant neoplasm of lip, oral cavity, and pharynx	C00-C14	93	91.2	85	2.5	49	59.9	29	1.3	142	114	2.0
Malignant neoplasm of esophagus	C15	162	78.2	127	3.7	66	71.0	47	2.0	228	174	3.0
Malignant neoplasm of pancreas	C52	199	21.7	43	1.2	243	33.9	82	3.6	442	126	2.2
Malignant neoplasm of larynx	C32	37	79.7	29	0.9	4	87.2	3	0.2	41	33	0.6
Malignant neoplasm of trachea, lung, and bronchus	C33-C34	1,108	89.3	989	28.6	906	76.5	693	30.1	2,014	1,683	29.2
Malignant neoplasm of cervix, uterus	C53-C55	-	-	-	-	108	33.9	37	1.6	108	37	0.6
Malignant neoplasm of urinary bladder	C67	143	44.8	64	1.9	54	37.6	20	0.9	197	84	1.5
Malignant neoplasm of kidney and other unspecified urinary organs	C64-C66, C68	112	46.8	52	1.5	69	12.4	9	0.4	181	61	1.1
SUBTOTAL		**1,854**		**1,390**	**40.2**	**1,499**		**921**	**39.9**	**3,353**	**2,311**	**40.1**
Circulatory System Diseases												
Hypertension	I10-I13	119	24.6	29	0.8	180	16.4	30	1.3	299	59	1.0
Ischemic heart disease:	I20-I25											
35-64 Years		472	43.2	204	5.9	87	36.5	32	1.4	559	236	4.1
65+ Years		2,200	21.1	464	13.4	1,995	14.6	291	12.6	4,195	755	13.1
Other heart diseases	I01-I09, I27, I30-I52	747	26.5	198	5.7	1,001	19.4	194	8.4	1,748	392	6.8
Cerebrovascular disease:	I60-I69											
35-64 Years		87	44.8	39	1.1	76	49.3	37	1.6	163	76	1.3
65+ Years		796	23.4	186	5.4	1,220	4.8	59	2.5	2,016	245	4.2
Atherosclerosis	I70	99	55.5	55	1.6	92	31.7	29	1.3	191	84	1.5
Aortic aneurysm	I71	145	55.5	80	2.3	87	31.7	28	1.2	232	108	1.9
Other arterial diseases	I26, I28, I72-I78	93	55.5	52	1.5	119	31.7	38	1.6	212	89	1.6
SUBTOTAL		**4,758**		**1,308**	**37.8**	**4,857**		**737**	**32.0**	**9,615**	**2,045**	**35.5**
Respiratory System Diseases												
Pneumonia/influenza	J10-J18.1, J18.8-J18.9	559	32.7	183	5.3	661	26.3	174	7.5	1,220	357	6.2
Bronchitis, emphysema	J40-J43	62	84.7	53	1.5	71	79.2	56	2.4	133	109	1.9
Chronic obstructive pulmonary disease	J44	609	84.7	516	14.9	515	79.2	408	17.7	1,124	924	16.0
Other respiratory diseases	A15-A19, J45-J46	24	32.7	8	0.2	34	26.3	9	0.4	58	17	0.3
SUBTOTAL		**1,254**		**759**	**22.0**	**1,281**		**647**	**28.1**	**2,535**	**1,406**	**24.4**
TOTAL		**7,866**		**3,457**	**100.0**	**7,637**		**2,305**	**100.0**	**15,503**	**5,761**	**100.0**

Note: Deaths are the total number of deaths aged 35+ years or as specified in the diagnostic category.
SAM – Smoking-Attributable Mortality, derived by multiplying the SAM(%) by the number of deaths in each category.
See glossary under Smoking-Attributable Mortality Percent for a definition of the formula for SAM(%).
Total SAM Number may not add up to the sum of Male SAM Number and Female SAM Number due to rounding.
Non-residents are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 25

SMOKING-ATTRIBUTABLE MORTALITY BY SELECTED CAUSES AND GENDER

BRITISH COLUMBIA, 2002



Note: Ischemic heart disease includes 35-64 years and 65+ years.
Cerebrovascular disease includes 35-64 years and 65+ years.

HIGHLIGHTS TO TABLE 42/FIGURE 25

- In 2002, there were 5,761 deaths that were attributed to smoking. Smoking-attributable mortality (SAM) is based on estimates of the relative exposure risk of the adult population (age 35 or older). A detailed definition of this term is provided in the Glossary. Table 42 presents, for each specific cause of death, the total number of deaths by gender, the proportion of these deaths which are attributed to smoking (labeled SAM%), and the number of SAM deaths.
- Smoking-attributable mortality can be grouped into deaths from cancers (malignant neoplasms), circulatory system diseases and respiratory system diseases. Out of 100 smoking-attributable deaths in 2002; approximately:
  - 40 were from cancers (malignant neoplasms) (2,311)
  - 36 were from circulatory system diseases (2,045)
  - 24 were from respiratory system diseases (1,406)
- By specific causes of death, lung cancer (malignant neoplasms of trachea, lung, and bronchus) was the major contributor (1,683 deaths) to smoking-attributable mortality in 2002, followed by ischemic heart disease (991) and chronic obstructive pulmonary disease (924). Together these three causes of death accounted for 3,598 deaths or 62.4% of smoking attributable mortality in the province in 2002.
- In 2002, three in five smoking-attributable deaths were males.

TABLE 43
DRUG–INDUCED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 2002

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	1	0.5	-	-	1	0.4
15-19	1	0.5	3	3.2	4	1.4
20-24	8	4.3	11	11.6	19	6.8
25-44	101	54.9	35	36.8	136	48.7
45-64	68	37.0	38	40.0	106	38.0
65-84	4	2.2	7	7.4	11	3.9
85+	1	0.5	1	1.1	2	0.7
TOTAL	**184**	**100.0**	**95**	**100.0**	**279**	**100.0**

Note: Excludes tobacco and alcohol.
Drug-induced deaths – see Table 44 for ICD-10 codes and Glossary for more details.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 43

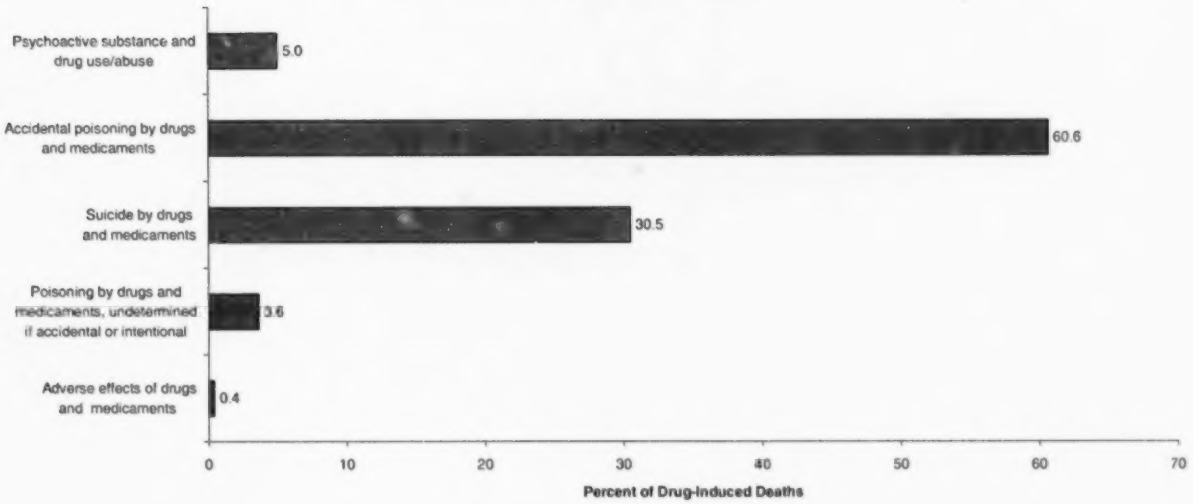
- There were 279 deaths in the province from drug-induced causes in 2002. This grouping of underlying causes of death includes, accidental drug poisonings, suicides involving drugs and adverse effects of drugs.
- Two thirds (65.9%) of drug-induced deaths in 2002 were males (184), compared to 95 female deaths.
- Drug-induced deaths occurred in every age group. Almost half (48.7%) of the drug-induced deaths in the province occurred in the 25-44 age group (136 deaths) and another 38.0% were aged 45-64 (106 deaths).
- For males, 91.9% of drug-induced deaths were in the 25-44 and 45-64 age groups combined (169 deaths). Female drug-induced deaths were similarly concentrated in these age groups, and accounted for 76.8% of female deaths (73) in this category.

TABLE 44
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 1997–2001 AND 2002

Cause of Death	ICD-10 Code(s)	Year of Death: 1997–2001 Number	1997–2001 Percent	2002 Number	2002 Percent
Psychoactive substance and drug use/abuse	F11-F16, F19	70	2.8	14	5.0
Accidental poisoning by drugs and medicaments	X40-X44	1,785	71.3	169	60.6
Suicide by drugs and medicaments	X60-X64	465	18.6	85	30.5
Assault by drugs and medicaments	X85	2	0.1	-	-
Poisoning by drugs and medicaments, undetermined if accident or intentional	Y10-Y14	70	2.8	10	3.6
Adverse effects of drugs and medicaments	Y40-Y57.4, Y57.7-Y57.9, Y88.0	108	4.3	1	0.4
Other drug causes*		3	0.1	-	-
TOTAL		**2,503**	**100.0**	**279**	**100.0**

Note: Excludes tobacco and alcohol.
*Other drug causes include neonatal withdrawal from maternal use of drugs of addiction, and drug-induced anemias and other chronic conditions – see Glossary for more details.
Total percentage may not add to 100 due to rounding. Non-residents are excluded.

FIGURE 26
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 2002



HIGHLIGHTS TO TABLE 44/FIGURE 26

- There were 279 deaths in the province from drug-induced causes in 2002 and 2,503 drug-induced deaths in 1997-2001.
- About two thirds of drug-induced deaths in 2002 and 1997-2001 (60.6% and 71.3% respectively) were the result of accidental poisonings by drugs, and medicaments (169 deaths in 2002 and 1,785 deaths in 1997-2001).
- Approximately one third of the drug-induced deaths (30.5%) in 2002 were the result of suicide by drugs and medicaments (85 deaths). The proportion of suicides among drug-induced deaths (18.6%) was lower in 1997-2001 (465 deaths).
- Of the 396 suicide deaths in B.C. in 2002 (presented in Table 30), 85 suicides, or approximately one fifth of suicide deaths (21.5%), were drug-induced.

Vital Statistics Information Box

BIRTHS BY MOTHER'S COUNTRY OF BIRTH AND DEATHS BY DECEDENT'S COUNTRY OF BIRTH

BRITISH COLUMBIA, 2002

Area	Province/Country	Births	Deaths
Canada	**Total**	**26,309**	**19,103**
	British Columbia	18,119	7,169
	Saskatchewan	840	3,708
	Alberta	2,272	2,766
	Manitoba	817	2,167
	Ontario	2,660	1,861
	Quebec	736	654
	Nova Scotia	337	345
	New Brunswick	164	226
	Newfoundland	214	118
	Prince Edward Island	30	56
	Northwest Territories	41	17
	Yukon	75	10
	Unknown Province	4	6
North and Central America	**Total (Excluding Canada)**	**1,192**	**824**
	United States	710	746
	Other North and Central American Countries	482	78
South America	**Total**	**224**	**64**
Europe	**Total**	**2,029**	**6,333**
	England	537	2,077
	Scotland	93	689
	Other United Kingdom	135	199
	Germany	189	617
	Former USSR	159	418
	Scandinavian Countries	52	373
	Poland	100	319
	Former Yugoslavia	181	141
	Italy	44	279
	Other European Countries	539	1,221
Asia and the Middle East	**Total**	**8,898**	**1,926**
	India	2,676	424
	China	1,755	812
	Philippines	1,232	147
	Hong Kong	555	115
	Vietnam	648	66
	Taiwan	354	31
	Korea	373	63
	Japan	267	60
	Other Asian and Middle Eastern Countries	1,038	208
Africa	**Total**	**521**	**151**
Oceania	**Total**	**448**	**158**
	Fiji	291	83
	Australia	96	48
	Other Oceanic Countries	61	27
Unknown		**568**	**127**
Total		**40,189**	**28,686**

Note: Births include live births plus stillbirths. Non-residents are excluded.

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA
DRUG-INDUCED DEATHS

Table 45

BRITISH COLUMBIA, 1997–2001 AND 2002

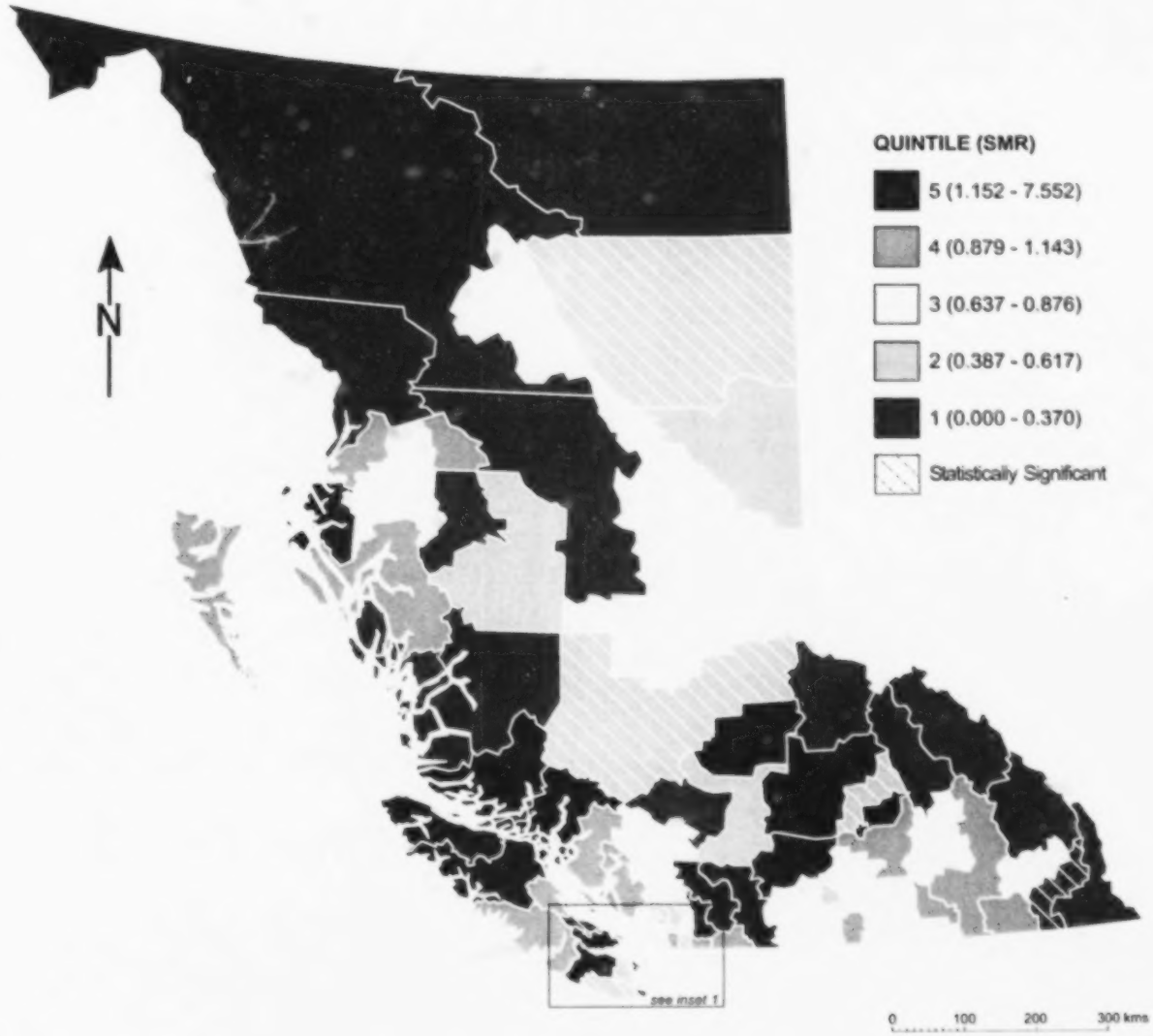
	Local Health Area	1997–2001 Observed Deaths	1997–2001 SMR (p)	2002 Observed Deaths	2002 Expected Deaths	2002 SMR (p)	95% Confidence Interval Lower	95% Confidence Interval Upper
001	Fernie	2	0.20 +	-	1.12	-	-	-
002	Cranbrook	5	0.33 *	3	1.68	1.79	0.36	5.23
003	Kimberley	4	0.74	-	0.59	-	-	-
004	Windermere	1	0.18	-	0.66	-	-	-
005	Creston	7	0.99	-	0.73	-	-	-
006/007	Kootenay Lake/Nelson	18	1.03	1	1.88	0.53	0.01	2.95
009	Castlegar	8	0.97	-	0.88	-	-	-
010	Arrow Lakes	2	0.64	-	0.34	-	-	-
011	Trail	11	0.88	2	1.34	1.49	0.17	5.39
012/013	Grand Forks/Kettle Valley	6	0.78	-	0.81	-	-	-
014	Southern Okanagan	10	1.00	1	1.04	0.96	0.01	5.35
015	Penticton	18	0.78	3	2.43	1.24	0.25	3.61
016	Keremeos	2	0.74	1	0.29	3.41	0.04	18.97
017	Princeton	2	0.68	1	0.30	3.29	0.04	18.32
018	Golden	-	-	-	0.53	-	-	-
019	Revelstoke	1	0.18	-	0.58	-	-	-
020	Salmon Arm	8	0.44 *	-	2.00	-	-	-
021	Armstrong-Spallumcheen	-	-	-	0.63	-	-	-
022	Vernon	32	0.93	8	3.77	2.12	0.91	4.18
023	Central Okanagan	77	0.86	16	9.88	1.62	0.92	2.63
024	Kamloops	76	1.22	7	6.85	1.02	0.41	2.11
025	100 Mile House	11	1.22	3	0.94	3.18	0.64	9.30
026	North Thompson	-	-	1	0.34	2.91	0.04	16.19
027	Cariboo-Chilcotin	9	0.51 *	2	1.93	1.04	0.12	3.74
028	Quesnel	13	0.82	4	1.70	2.36	0.63	6.03
029	Lillooet	1	0.34	1	0.33	3.05	0.04	16.99
030	South Cariboo	2	0.44	-	0.51	-	-	-
031	Merritt	11	1.62	-	0.74	-	-	-
032	Hope	9	1.81	1	0.56	1.78	0.02	9.92
033	Chilliwack	40	0.98	4	4.57	0.88	0.24	2.24
034	Abbotsford	71	1.04	4	7.83	0.51	0.14	1.31
035	Langley	38	0.55 *	8	7.57	1.06	0.45	2.08
036	Surrey	231	1.04	30	26.04	1.15	0.78	1.64
037	Delta	27	0.44 *	5	6.68	0.75	0.24	1.75
038	Richmond	41	0.39 *	2	12.16	0.16 +	0.02	0.59
040	New Westminster	83	2.15 *	5	4.29	1.17	0.38	2.72
041	Burnaby	103	0.81 *	9	14.47	0.62	0.28	1.18
042	Maple Ridge	39	0.81	8	5.66	1.41	0.61	2.79
043	Coquitlam	75	0.61 *	9	14.25	0.63	0.29	1.20
044	North Vancouver	47	0.56 *	5	9.33	0.54	0.17	1.25
045	West Vancouver-Bowen Is.	15	0.53 *	3	3.16	0.95	0.19	2.78
046	Sunshine Coast	17	1.08	1	1.73	0.58	0.01	3.22
047	Powell River	14	1.13	2	1.33	1.51	0.17	5.44
048	Howe Sound	17	0.85	-	2.25	-	-	-
049	Bella Coola Valley	-	-	-	0.23	-	-	-
050	Queen Charlotte	4	1.14	-	0.37	-	-	-
051	Snow Country	-	-	-	0.06	-	-	-
052	Prince Rupert	14	1.28	-	1.13	-	-	-
053	Upper Skeena	3	0.88	1	0.37	2.72	0.04	15.13
054	Smithers	2	0.18 +	-	1.19	-	-	-
055/093	Burns Lake/Eutsuk	2	0.45	-	0.51	-	-	-
056	Nechako	2	0.19 +	1	1.15	0.87	0.01	4.86
057	Prince George	50	0.79	4	6.81	0.59	0.16	1.50
059	Peace River South	9	0.53	-	1.80	-	-	-
060	Peace River North	7	0.39 *	1	2.06	0.49	0.01	2.70
061	Greater Victoria	206	1.57 *	21	14.13	1.49	0.92	2.27
062	Sooke	21	0.62 *	1	3.77	0.26	0.00	1.47
063	Saanich	21	0.59 *	1	3.85	0.26	0.00	1.45
064	Gulf Islands	3	0.37	-	0.92	-	-	-
065	Cowichan	18	0.59 *	6	3.31	1.81	0.66	3.94
066	Lake Cowichan	5	1.33	1	0.41	2.46	0.03	13.71
067	Ladysmith	8	0.84	1	1.03	0.97	0.01	5.39
068	Nanaimo	64	1.15	7	6.09	1.15	0.46	2.37
069	Qualicum	8	0.36 *	3	2.40	1.25	0.25	3.66
070	Alberni	22	1.13	1	2.08	0.48	0.01	2.67
071	Courtenay	35	1.01	2	3.78	0.53	0.06	1.91
072/084	Campbell River/V.I. West	34	1.26	4	2.84	1.41	0.38	3.60
075	Mission	26	1.15	5	2.51	1.99	0.64	4.65
076	Agassiz-Harrison	8	1.60	-	0.57	-	-	-
077	Summerland	4	0.61	-	0.68	-	-	-
078	Enderby	5	1.19	-	0.45	-	-	-
080	Kitimat	7	0.91	-	0.80	-	-	-
081	Fort Nelson	1	0.25	-	0.43	-	-	-
083	Central Coast	-	-	-	0.12	-	-	-
085	Vancouver Island North	11	1.19	1	0.97	1.03	0.01	5.72
087/094	Stikine/Telegraph Creek	-	-	-	0.13	-	-	-
088	Terrace	12	0.88	1	1.42	0.70	0.01	3.91
092	Nisga'a	1	0.89	-	0.12	-	-	-
161	Vancouver City Centre	132	1.81 *	16	8.39	1.91 *	1.09	3.10
162	Vancouver Downtown E. Side	296	7.55 *	27	4.30	6.28 *	4.14	9.14
163	Vancouver North East	68	1.10	4	6.92	0.58	0.16	1.48
164	Vancouver West Side	42	0.53 *	6	8.88	0.68	0.25	1.47
165	Vancouver Midtown	87	1.48 *	9	6.54	1.38	0.63	2.61
166	Vancouver South	54	0.70 *	4	8.76	0.46	0.12	1.17
039	**VANCOUVER TOTAL**	**679**	**1.74 ***	**66**	**43.79**	**1.51 ***	**1.17**	**1.92**
	N.S.	7	-	1				
	PROVINCIAL TOTAL	**2,503**	**1.00**	**279**		**1.00**		

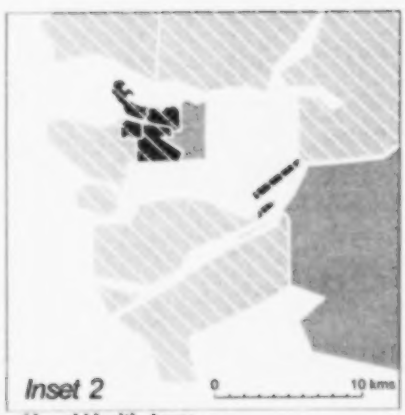
Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+Denotes significance based on less than five deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded. N.S. – Not stated.

FIGURE 27

DRUG-INDUCED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1997–2001





Note: SMR - Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 45/FIGURE 27

- In 2002, there were 2 Local Health Areas (LHAs) with statistically significant and high Standardized Mortality Ratios (SMR) for drug-induced deaths. These two LHAs and their SMRs for drug-induced deaths in 2002 (number of drug-induced deaths in parentheses) were:

162	Vancouver Downtown E. Side	(27)	6.28
161	Vancouver City Centre	(16)	1.91

- The above noted LHAs also had statistically significant and high SMRs in the five-year period 1997-2001.
- In 2002, 30 LHAs had no drug-induced deaths and there were no LHAs with statistically significant and low SMRs (based on five or more deaths).
- There were five LHAs with statistically significant and high SMRs in the 1997-2001 period. The SMRs for these LHAs (number of drug-induced deaths in parentheses) were:

162	Van. Downtown E. Side	(296)	7.55
040	New Westminster	(83)	2.15
161	Vancouver City Centre	(132)	1.81
061	Greater Victoria	(206)	1.57
165	Vancouver Midtown	(87)	1.48

- In the 1997-2001 period, 17 LHAs had statistically significant and low SMRs (based on five or more drug-related deaths). The six LHAs with the lowest SMRs (number of drug-induced deaths in parentheses) were:

002	Cranbrook	(5)	0.33
069	Qualicum	(8)	0.36
038	Richmond	(41)	0.39
060	Peace River North	(7)	0.39
037	Delta	(27)	0.44
020	Salmon Arm	(8)	0.44

- Seven LHAs had no drug-induced deaths in the 1997-2001 period. These were Golden, Armstrong-Spallumcheen, North Thompson, Bella Coola Valley, Snow Country, Central Coast, and Stikine/Telegraph Creek. All of theses except for North Thompson also had no drug-induced deaths in 2002.

Vital Statistics Information Box

METHOD OF DISPOSITION BY DECEDENT'S LOCAL HEALTH AREA OF RESIDENCE

BRITISH COLUMBIA, 2002

Local Health Area		Burial		Cremation		Other	Total
		Number	Percent	Number	Percent		
001	Fernie	18	24.0	57	76.0	-	75
002	Cranbrook	31	19.1	130	80.2	1	162
003	Kimberley	12	13.3	78	86.7	-	90
004	Windermere	8	14.0	49	86.0	-	57
005	Creston	36	30.8	79	67.5	2	117
006/007	Kootenay Lake/Nelson	44	22.1	155	77.9	-	199
009	Castlegar	49	40.2	73	59.8	-	122
010	Arrow Lakes	4	9.5	38	90.5	-	42
011	Trail	32	14.9	179	83.3	4	215
012/013	Grand Forks/Kettle Valley	32	28.6	80	71.4	-	112
014	Southern Okanagan	43	17.0	209	82.6	1	253
015	Penticton	66	13.6	421	86.4	-	487
016	Keremeos	12	21.4	44	78.6	-	56
017	Princeton	5	10.4	43	89.6	-	48
018	Golden	9	25.0	27	75.0	-	36
019	Revelstoke	18	33.3	36	66.7	-	54
020	Salmon Arm	53	18.2	238	81.8	-	291
021	Armstrong-Spallumcheen	18	24.3	56	75.7	-	74
022	Vernon	133	24.3	414	75.7	-	547
023	Central Okanagan	317	23.1	1,052	76.8	1	1,370
024	Kamloops	131	16.6	641	81.4	15	787
025	100 Mile House	18	15.8	96	84.2	-	114
026	North Thompson	5	18.5	21	77.8	1	27
027	Cariboo-Chilcotin	47	30.5	107	69.5	-	154
028	Quesnel	45	27.4	119	72.6	-	164
029	Lillooet	12	37.5	20	62.5	-	32
030	South Cariboo	27	32.5	55	66.3	1	83
031	Merritt	28	28.0	72	72.0	-	100
032	Hope	19	24.7	58	75.3	-	77
033	Chilliwack	143	24.2	448	75.7	1	592
034	Abbotsford	299	35.1	552	64.8	1	852
035	Langley	150	20.8	569	79.0	1	720
036	Surrey	473	21.0	1,771	78.8	4	2,248
037	Delta	101	18.3	449	81.3	2	552
038	Richmond	226	27.5	591	72.0	3	821
040	New Westminster	106	22.7	357	76.4	4	467
041	Burnaby	337	26.1	935	72.4	20	1,292
042	Maple Ridge	93	17.5	436	82.3	1	530
043	Coquitlam	202	23.3	653	75.4	11	866
044	North Vancouver	119	14.5	693	84.3	10	822
045	West Vancouver-Bowen Is.	67	14.8	384	85.0	1	452
046	Sunshine Coast	23	10.7	192	89.3	-	215
047	Powell River	29	15.3	156	82.5	4	189
048	Howe Sound	19	17.6	89	82.4	-	108
049	Bella Coola Valley	14	58.3	10	41.7	-	24
050	Queen Charlotte	13	46.4	14	50.0	1	28
051	Snow Country	2	28.6	5	71.4	-	7
052	Prince Rupert	45	36.6	78	63.4	-	123
053	Upper Skeena	13	61.9	8	38.1	-	21
054	Smithers	29	42.6	39	57.4	-	68
055/093	Burns Lake/Eutsuk	16	35.6	29	64.4	-	45
056	Nechako	50	50.0	50	50.0	-	100
057	Prince George	168	33.9	325	65.7	2	495
059	Peace River South	68	41.5	96	58.5	-	164
060	Peace River North	57	51.8	53	48.2	-	110
061	Greater Victoria	319	14.2	1,923	85.5	6	2,248
062	Sooke	41	13.1	269	86.2	-	312
063	Saanich	72	12.3	514	87.7	-	586
064	Gulf Islands	17	15.3	93	83.8	1	111
065	Cowichan	60	14.6	352	85.4	-	412
066	Lake Cowichan	8	17.4	38	82.6	-	46
067	Ladysmith	27	15.6	145	83.8	1	173
068	Nanaimo	85	10.8	703	89.2	-	788
069	Qualicum	36	8.3	396	91.5	1	433
070	Alberni	67	27.2	179	72.8	-	246
071	Courtenay	47	10.2	416	89.8	-	463
072/084	Campbell River/V.I. West	40	15.0	227	85.0	-	267
075	Mission	41	16.9	202	83.1	-	243
076	Agassiz-Harrison	16	27.1	43	72.9	-	59
077	Summerland	40	23.1	133	76.9	-	173
078	Enderby	20	29.4	48	70.6	-	68
080	Kitimat	12	26.1	34	73.9	-	46
081	Fort Nelson	8	47.1	9	52.9	-	17
083	Central Coast	18	85.7	3	14.3	-	21
085	Vancouver Island North	18	28.1	39	60.9	7	64
087/094	Stikine/Telegraph Creek	5	62.5	3	37.5	-	8
088	Terrace	37	28.7	90	69.8	2	129
092	Nisga'a	14	100.0	-	-	-	14
161	Vancouver City Centre	141	21.8	501	77.4	5	647
162	Vancouver Downtown E. Side	223	43.3	275	53.4	17	515
163	Vancouver North East	241	41.6	304	52.5	34	579
164	Vancouver West Side	229	29.2	551	70.3	4	784
165	Vancouver Midtown	218	41.1	306	57.7	6	530
166	Vancouver South	298	35.3	538	63.7	9	845
039	**VANCOUVER TOTAL**	**1,350**	**34.6**	**2,475**	**63.5**	**75**	**3,900**
	N.S.	1	33.3	2	66.7	-	3
	PROVINCIAL TOTAL	**6,533**	**22.8**	**21,965**	**76.6**	**185**	**28,686**

Note: LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents are excluded.

TABLE 46
METHOD OF DISPOSITION OF DECEDENT
BRITISH COLUMBIA, 1985–2002

Year	Burial		Cremation		Other	N.S.	Total
	Number	Percent	Number	Percent	Number	Number	
1985	8,558	40.5	12,434	58.8	108	31	21,131
1986	8,204	39.1	12,686	60.4	98	18	21,006
1987	8,211	38.0	13,279	61.4	104	25	21,619
1988	8,319	37.2	13,926	62.3	96	20	22,361
1989	8,061	35.4	14,616	64.2	81	22	22,780
1990	8,208	35.1	15,088	64.5	91	11	23,398
1991	8,035	33.8	15,675	65.9	75	9	23,794
1992	7,818	32.0	16,512	67.5	97	18	24,445
1993	7,986	31.2	17,211	67.2	151	253	25,601
1994	7,708	29.8	17,886	69.3	175	55	25,824
1995	7,615	29.0	18,358	70.0	184	64	26,221
1996	7,640	27.9	19,545	71.4	192	11	27,388
1997	7,361	27.0	19,648	72.1	205	46	27,260
1998	7,198	25.9	20,375	73.3	224	10	27,807
1999	7,059	25.3	20,605	74.0	195	–	27,859
2000	6,451	23.6	20,670	75.7	186	1	27,308
2001	6,681	23.7	21,323	75.5	221	1	28,226
2002	6,533	22.8	21,965	76.6	185	3	28,686

Note: Percent is based on total deaths in the specified year.
Other includes remains not recovered and donations as per will of deceased.
N.S. – Not stated.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 46

- In 2002, out of every 100 deaths approximately:
  - 77 resulted in cremations (21,965)
  - 23 involved burials (6,533).
- Since 1985, there has been a decreasing trend in burials.

Marriage-related Statistics

Vital Statistics Information Box

MARRIAGES BY PLACE OF RESIDENCE OF BRIDE AND GROOM

BRITISH COLUMBIA, 2002

Area	Province or State/Country	Bride	Groom
Canada	**Total**	**20,236**	**20,180**
	British Columbia	19,070	18,925
	Alberta	759	809
	Ontario	243	269
	Saskatchewan	61	67
	Manitoba	37	40
	Quebec	30	34
	Nova Scotia	11	8
	Yukon	9	10
	Northwest Territories	7	10
	New Brunswick	7	6
	Newfoundland	2	2
United States	**Total**	**648**	**763**
	Washington	205	248
	Calfornia	136	157
	Oregon	40	40
	Texas	29	29
	New York	23	28
	Colorado	20	19
	Arizona	14	17
	Florida	10	15
	Michigan	10	15
	Other States	161	195
Mexico, Cent. & S.America	**Total**	**32**	**15**
Europe	**Total**	**176**	**166**
	England	41	47
	Other United Kingdom	44	53
	Germany	39	32
	Other	52	34
Asia and Middle East	**Total**	**124**	**86**
	Hong Kong	46	38
	Japan	38	24
	Other	40	24
Africa	**Total**	**2**	**1**
Oceania	**Total**	**24**	**32**
Unknown		**3**	**2**
Total		**21,245**	**21,245**

Summary

Statistics arising from marriages are presented in this section. Unlike the birth and death statistics, which are based on usual residence, the marriage information is based on all marriages that occurred in British Columbia and includes non-residents. The tables in this section contain information about marriages by previous marital status, age of bride and groom, and type of ceremony.

Summary statistics for marriages in 2002 are presented below:

- A total of 21,245 marriages were solemnized in the province in 2002.
- In 2002, 60.7% of couples were marrying for the first time. In 20.0% of the marriages, it was the first marriage for only one of the parties and 19.2% involved couples where both partners were previously divorced or widowed.
- There were 432 marriages where either the bride or groom was under 20 years of age. These teen marriages accounted for one out of 50 marriages (2.0% of all marriages) in 2002. There were only 62 marriages where both the bride and groom were teenagers.
- There were 1,039 marriages where either the bride or groom was 60 years of age or older. These marriages to people aged 60 or older accounted about one in 20 marriages (4.9% of all marriages) in 2002. There were 470 marriages where both the bride and the groom were aged 60 or older.
- In 2002 approximately two fifths of the marriages were performed by religious representatives and three fifths were civil ceremonies.

TABLE 47

MARRIAGES BY MARITAL STATUS OF BRIDE AND GROOM

BRITISH COLUMBIA, 2002

Marital Status of Bride	Marital Status of Groom				
	Single	Widowed	Divorced	N.S.	Total
Single	12,902	89	2,152	-	15,143
Widowed	108	247	294	-	649
Divorced	1,910	331	3,211	-	5,452
N.S.	-	-	-	1	1
TOTAL	**14,920**	**667**	**5,657**	**1**	**21,245**

Note: N.S. - Not stated.

HIGHLIGHTS TO TABLE 47

- A total of 21,245 marriages were solemnized in the province in 2002.
- In 2002, 60.7% of couples were marrying for the first time (12,902). In 20.0% of the marriages it was the first marriage for only one of the parties(4,259), and 19.2% involved couples where both partners were previously divorced or widowed (4,083).
- Out of every 100 marriages in 2002, approximately:
  - 71 involved single brides (15,143)
  - 3 involved widowed brides (649)
  - 26 involved divorced brides (5,452).
- Out of every 100 marriages in 2002, approximately:
  - 70 involved single grooms (14,920)
  - 3 involved widowed grooms (667)
  - 27 involved divorced grooms (5,657).
- Out of every 100 marriages in 2002, approximately:
  - 61 involved single brides and grooms (12,902)
  - 11 involved single brides and divorced or widowed grooms (2,241)
  - 9 involved single grooms and divorced or widowed brides (2,018)
  - 19 involved brides and grooms who were both divorced or widowed (4,083).

TABLE 48
MARRIAGES BY AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 2002

Age of Bride (in Years)	Age of Groom (in Years)										Total	
	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50–59	60+	N.S.	Number	Percent
15-19	62	223	68	24	2	4	-	-	-	-	383	1.8
20-24	45	1,825	1,651	434	116	37	10	10	-	-	4,128	19.4
25-29	4	424	2,896	1,875	543	156	59	20	8	-	5,985	28.2
30-34	-	70	671	1,665	1,083	383	140	73	13	-	4,098	19.3
35-39	-	15	115	422	758	571	262	176	28	-	2,347	11.0
40-44	-	3	27	92	234	441	364	317	44	-	1,522	7.2
45-49	-	1	9	25	79	186	279	445	86	-	1,110	5.2
50-59	-	-	1	8	20	43	153	587	333	-	1,145	5.4
60+	-	-	-	-	1	2	7	47	470	-	527	2.5
N.S.	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	**111**	**2,561**	**5,438**	**4,545**	**2,836**	**1,823**	**1,274**	**1,675**	**982**	**-**	**21,245**	
Percent	**0.5**	**12.1**	**25.6**	**21.4**	**13.3**	**8.6**	**6.0**	**7.9**	**4.6**			**100.0**

Note: N.S. – Not stated.
Total percentage may not add up to 100 due to rounding.

HIGHLIGHTS TO TABLE 48

- There were 432 marriages where either the bride or groom was under 20 years of age. These teen marriages accounted for one out of 50 marriages (2.0% of all marriages) in 2002. There were only 62 marriages where both the bride and groom were teenagers.
- There were 1,039 marriages where either the bride or groom was 60 years of age or older. These marriages to people aged 60 or older accounted about one in 20 marriages (4.9% of all marriages) in 2002. There were 470 marriages where both the bride and the groom were aged 60 or older.
- Out of every 100 brides, approximately:
  - 2 were aged 15-19 (383)
  - 48 were aged 20-29 (10,113)
  - 30 were aged 30-39 (6,445)
  - 12 were aged 40-49 (2,632)
  - 5 were aged 50-59 (1,145)
  - 3 were aged 60 or older (527).
- Out of every 100 grooms, approximately:
  - 1 was aged 15-19 (111)
  - 38 were aged 20-29 (7,999)
  - 35 were aged 30-39 (7,381)
  - 15 were aged 40-49 (3,097)
  - 8 were aged 50-59 (1,675)
  - 5 were aged 60 or older (982).
- Comparing the age groups of the bride and groom, out of every 100 marriages in 2002, approximately:
  - 45 marriages involved grooms who were older than their brides (9,558)
  - 42 marriages involved brides and grooms in the same age group (8,983)
  - 13 marriages involved brides who were older than their grooms (2,704).

TABLE 49

RELIGIOUS REPRESENTATIVES ON REGISTER AND MARRIAGES PERFORMED BY RELIGIOUS DENOMINATION

BRITISH COLUMBIA, 2002

Religious Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Anglican	567	220	686
Baptist	693	325	791
Eastern Orthodox	46	18	77
Jewish	33	13	45
Lutheran	261	130	307
Mennonite / Hutterite	414	212	405
Pentecostal	774	298	799
Presbyterian	170	75	154
Catholic	514	262	1,226
Salvation Army	183	49	64
Jehovahs Witness	90	62	146
United Church	559	318	1,324
Other Christian Religions	2,210	867	1,879
Other Non Christian Religions	416	160	952
Unknown / Not Stated	11	8	35
Total	**6,941**	**3,017**	**8,890**

Note: Religious Denomination categories are from Statistics Canada.
Individuals with temporary appointments are counted once for each appointment.

TABLE 50

MARRIAGE COMMISSIONERS ON REGISTER BY TYPE AND MARRIAGES PERFORMED

BRITISH COLUMBIA, 2002

Type of Commisioner	Number of Commissioners	Number Who Performed Marriages	Number of Marriages Performed
Private Commissioner*	500	470	12,352
Public Servant	10	3	3
Total	**510**	**473**	**12,355**

Note: Individuals with temporary appointments are counted once for each appointment.
* Includes 135 temporary appointments.

HIGHLIGHTS TO TABLE 49/TABLE 50

- In British Columbia, Religious Representatives or Marriage Commissioners can perform marriage ceremonies. There were 3,017 Religious Representatives and 473 Marriage Commissioners who solemnized marriages in the province in 2002.
- In 2002 approximately two fifths (41.8%) of the marriages were performed by religious representatives (8,890) and three fifths (58.2%) were civil ceremonies (12,355).

Glossary

Terms, Methods, and Computational Examples

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS)

(See **HIV Disease.**)

AGE-SPECIFIC FERTILITY RATE (ASFR)

The rate of live births per 1,000 women for the specific age group. This is a more detailed measure than the crude birth rate, as it reflects variations in the birth rate by age groups of the female population.

(See **Statistical Computation** under Fertility Rate for an example.)

AGE STANDARDIZATION

Age standardized is a method of calculation which adjusts a statistical measure for differences in the age/gender structures between populations. With standardized measures, more meaningful comparisons can be made between genders, different time periods, or geographic areas, because the age standardized statistic is calculated as if all populations had the same age/gender age population distribution.

(See **Age Standardized Mortality Rate (ASMR), Standardized Mortality Ratio (SMR), Potential Years of Life Lost Standardized Rate (PYLLSR),** and **Potential Years of Life Lost Index (PYLLI)**; for an example, see **Statistical Computation.**)

AGE STANDARDIZED MORTALITY RATE (ASMR)

A summary of age adjusted death rates by age and gender, which have been standardized to a 'standard' population (1991 Canada Census) for the purpose of rate comparisons between genders, different time periods or different geographic locations. The ASMR is the theoretical number of deaths that would occur per 10,000 population, if the specific population had the same age structure as the standard population.

(See **Age Standardization** and **Standard Population**; for an example, see **Statistical Computation**.)

AIDS

(See **HIV Disease**.)

ALCOHOL-RELATED DEATHS

Alcohol-related deaths are based on the ICD-10 diagnostic categories listed below, for which the resulting deaths are directly attributed to the use or abuse of alcohol. Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.

Directly Related to Alcohol **Cause of Death:**	**ICD–10 Code(s)**
Alcoholic intoxication	F10.0–F10.1
Alcoholic psychoses and dependence	F10.2–F10.9
Alcoholic liver disease	K70
Alcoholic neurological disorders	G31.2, G62.1, G72.1
Alcoholic cardiomyopathy	I42.6
Alcoholic gastritis	K29.2
Alcoholic chronic pancreatitis	K86.0
Alcohol poisoning	X45, X65
Other causes	E24.4, O35.4, P04.3, Q86.0, R78.0, T51.0–T51.2, T51.9

Alcohol is considered to be a direct cause of death if one of the above conditions is listed as the underlying cause of death on the medical certification of death. If, however, any of the above conditions are listed on the certificate as antecedent causes giving rise to the underlying cause or other significant conditions contributing to the death, the death is considered to be indirectly related to alcohol. ICD-10 codes for deaths indirectly related to alcohol are listed below:

Indirectly Related to Alcohol (excludes codes for directly related to alcohol)

Cause of Death	ICD–10 Code(s)
Infectious/parasitic diseases	A00–B99
Neoplasms	C00–D48
Endocrine/nutritional/metabolic diseases	E00–E24.3, E24.8–E89
Mental and behavioural disorders	F00–F09, F11–F99
Nervous system diseases	G00–G31.1, G31.8–G62.0, G62.2–G72.0, G72.2–G99
Circulatory system diseases	I00–I42.5, I42.7–I99
Respiratory system diseases	J00–J99
Digestive system diseases	K00–K29.1, K29.3–K69, K71.0–K85, K86.1–K92
Genitourinary system diseases	N00–N39, N99.0–N99.1, N99.5
Unintentional injury/accidents	V01–X44, X46–X59, Y40–Y86, Y88
Suicide	X60–X64, X66–X84, Y87.0
Homicide	X85–Y09, Y87.1
Other causes	

Refer to Glossary in previous annual reports for ICD-9 codes.

ASFR

(See **Age Specific Fertility Rate.**)

ASMR

(See **Age Standardized Mortality Rate.**)

AVERAGE AGE

The average ages of brides, grooms, and mothers of newborns in this annual report are calculated based on information provided on marriage or birth registration forms. The average ages of the population living in data dissemination areas are based on the mid-year population estimates for five-year age groups.

AVERAGE AGE POPULATION

The average age of the population is a grouped average based on the mid-year population estimates for five-year age groups.

BIRTH ORDER

Denotes the number position of the present birth relative to previous live births. That is, whether the live birth being counted is the 1st, 2nd, 3rd, etc. live born infant to a particular mother.

BIRTH RATE

(See **Crude Rates.**)

BIRTH WEIGHT

The first weight of the fetus or newborn after birth. For live births this weight should be measured within the first hour of life before significant postnatal weight loss has occurred. Hospitals in B.C. measure weight in grams; the approximate equivalents in imperial measures are included below for comparisons to other jurisdictions. For statistical and risk assessment purposes, birth weights are grouped as:

- Extremely Low Birth Weight: weight less than 500 grams (< 1 lb 2 oz).
- Very Low Birth Weight: weight less than 1,500 grams (< 3 lb 5 oz).
- Low Birth Weight (LBW): weight less than 2,500 grams (< 5 lb 8 oz).
- "Normal" Birth Weight: weight from 2,500 to 4,499 grams (5 lb 8 oz to 9 lb 15 oz).
- High Birth Weight: weight of 4,500 grams or more (> 9 lb 15 oz).

BIRTHS

(See **Total Births.**)

BREECH

(See **Mode of Delivery**.)

CESAREAN

(See **Mode of Delivery**.)

COMMUNITY

A geographic area defined by a municipal (city, town, village, district municipality, island municipality, or Indian Government district) boundary. In this report, data are provided only for those communities that are incorporated.

CONFIDENCE INTERVAL

(See **Statistical Test**.)

CONGENITAL ANOMALIES

Physical defects that existed or date from birth.

CRUDE RATES

For live births: the crude rate is the number of births divided by the mid-year population and converted to a rate per 1,000 population.

For birth-related statistics (teenage mother, elderly gravida, C-section, low birth weight, and pre-term): the rate is the number of these births divided by the number of live births and converted to a rate per 1,000 live births.

For stillbirths and perinatal deaths: the rate is the number of stillbirths, perinatal deaths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

For infant deaths: the crude rate is the number of infant deaths divided by the number of live births and converted to a rate per 1,000 live births.

For maternal deaths: the rate is the number of maternal deaths divided by the number of live births, and converted to a rate per 10,000 live births.

For deaths and mortality statistics: the crude rate is the number of deaths divided by the mid-year population and converted to a rate per 1,000 population.

For marriages: the crude rate is the number of marriages divided by the mid-year population and converted to a rate per 1,000 population.

DEATH RATE

(See **Crude Rates**.)

DRUG-INDUCED DEATHS

Deaths due to drug-induced causes. This category of deaths excludes accidents, homicides, and other causes indirectly related to drug use, as well as alcohol-related deaths and smoking-attributable mortality. The causes of death classified as being drug-induced (as shown below) are based on those used by the National Center for Health Statistics.[1]

Cause of Death	ICD-10 Code(s)
Psychoactive substance and drug use/abuse	F11-F16, F19
Accidental poisoning by drugs and medicaments	X40-X44
Suicide by drugs and medicaments	X60-X64
Assault by drugs and medicaments	X85
Poisoning by drugs and medicaments, undetermined if accident or intentional	Y10-Y14
Adverse effects of drugs and medicaments	Y40-Y56, Y57.0-Y57.4, Y57.7-Y57.9, Y88.0

EARLY NEONATAL DEATH

Death of a child under seven days of age.

ELDERLY GRAVIDA

Any woman who was 35 years of age or older at the time of delivery of a live born infant.

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[1] National Center for Health Statistics (1993). Technical notes. Monthly Vital Statistics Report. 41 (Suppl. 7), 48.

EXPECTED DEATHS

The number of deaths expected for residents of a sub-provincial geographic area, based on the age-specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area.

(See **Statistical Computation** for an example.)

EXPECTED LOW BIRTH WEIGHT

The number of live births with low birth weight (less than 2,500 grams) that would be expected to be born to residents of a sub-provincial geographic area, based on the low birth weight rate for the province as a whole, and the number of births in the sub-provincial geographic area.

(See **Statistical Calculation** under Low Birth Weight Live Births for an example.)

EXPECTED POTENTIAL YEARS OF LIFE LOST

The number of potential years of life lost (to age 75, as in this report) expected for residents of a sub-provincial geographic area based on the age-specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area.

(See **Statistical Computation** under Potential Years of Life Lost Index for an example.)

FERTILITY RATE

The number of live births occurring in a given time period divided by the number of women of child-bearing age for residents of a geographic area. B.C. rates are per 1,000 women aged 15 to 44. Canadian rates are per 1,000 women aged 15 to 49.

(See **Total Fertility Rate**.)

FORCEPS

(See **Mode of Delivery**.)

GESTATIONAL AGE

Fetal age or duration of pregnancy measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g., events occurring 280 to 286 days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks of gestation).

Measurements of fetal growth, as they represent continuous variables, are expressed in relation to a specific week of gestational age as follows:

- Extremely premature: gestational age of less than 28 weeks.
- Moderately premature: gestational age of 28 to 36 weeks.
- Pre-term/Premature: gestational age less than 37 weeks.
- Term: gestational age of 37 to 41 weeks.
- Post-term/Postmature: gestational age of 42 weeks or more.

HEALTH AUTHORITY (HA)

A geographic subdivision of the province used by the Ministry of Health for administrative purposes. The appendices 1 and 3 include data by 6 health authorities. Figure 2 presents a map of the province by HAs.

HEALTH SERVICE DELIVERY AREA (HSDA)

A geographic subdivision of the province used by the Health Authorities for administrative purposes. The appendices 1 and 3 include data by 16 Health Service Delivery Areas. Figure 2 presents a map of the province by HSDAs.

HIV DISEASE

In 1987, the World Health Organization added new codes to the ***International Classification of Diseases*** (ICD) to identify Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV). In ICD-10, these conditions are coded to B20–B24 and are called HIV disease..

HUMAN IMMUNODEFICIENCY VIRUS (HIV)

The virus that causes HIV disease.

ICD-9 CODES

The World Health Organization's ***International Classification of Diseases, Ninth Revision.*** This version of ICD was used by the B.C. Vital Statistics Agency for coding of birth complications and causes of death from 1979 until 1999.

ICD-10 CODES

The World Health Organization's ***International Classification of Diseases and Related Health Problems, Tenth Revision***, implemented by the B.C. Vital Statistics Agency on January 1, 2000. The Preamble to Appendix 2 presents a summary of ICD-10.

INFANT MORTALITY

Death of children under one year of age.

INFANT MORTALITY RATE

The number of deaths of children under one year of age expressed as a rate per 1,000 live births. The infant mortality rate is an internationally accepted indicator of the health status of a population.

LBW

(See **Low Birth Weight**.)

LHA

(See **Local Health Area**.)

LIFE EXPECTANCY

Life expectancy at age 0 represents the mean number of years a birth cohort (persons born in the same year) may expect to live given the present mortality experience of a population. The life expectancy for a population is a summary measure that reflects the mortality rates for all ages combined, weighted in accordance with a life-table population structure. Life expectancy is an internationally accepted indicator of the health status of a population.

LIVE BIRTH

The ***Vital Statistics Act*** defines a live birth as "The complete expulsion or extraction from its mother, irrespective of the duration of the pregnancy, of a product of conception in which, after the expulsion or extraction, there is:

(a) breathing;
(b) beating of the heart;
(c) pulsation of the umbilical cord; or
(d) unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached."

LOCAL HEALTH AREA

A geographic subdivision of the province used by the Ministries of Health for data dissemination purposes, which can be aggregated into Health Authorities (HA), or Health Service Delivery Areas (HSDA). In the tables in this report, four pairs of LHAs have been combined for ease of data presentation. Figure 1 presents a map of the province by local health areas.

LOW BIRTH WEIGHT (LBW)

A birth weight of less than 2,500 grams. Low birth weight babies have increased risks of morbidity and premature death.

LOW BIRTH WEIGHT RATE

The number of low birth weight live born babies per 1,000 live births.

MARRIAGE RATE

(See **Crude Rates**.)

MEDICALLY TREATABLE DISEASES, DEATHS DUE TO

Deaths due to medically treatable diseases are based on Charlton's[2] classification. The disease categories (shown below) are ones for which mortality could potentially have been avoided through appropriate medical intervention. The calculation of this measure is based on deaths of a specified age where the underlying cause stated on the medical certificate of death falls into one of these categories.

Cause of Death (Age)	**ICD-10 Code(s)**
Hypertensive disease (5–64)	I10–I15
Cervical cancer (5–64)	C53

[2] Charlton, J.R.H. (1987). Avoidable Deaths and Diseases as Monitors of Health Promotion. In T. Abelin, Z.J. Brzezinski, & V. Carstairs (Eds.), ***Measurement in Health Promotion and Protection*** (pp. 467–479). Copenhagen, Denmark: World Health Organization, Regional Office for Europe.

Pneumonia and unqualified bronchitis (5–49)	J12–J18.1, J18.8–J18.9, J40
Tuberculosis (5–64)	A15–A19, B90
Asthma (5–49)	J45, J46
Chronic rheumatic heart disease (5–44)	I05–I09
Acute respiratory infections and influenza (5–49)	J00–J06, J20–J22, J10–J11
Bacterial infections (5–64)	A00–A05, A20–A49, B95–B96, G00, H66, H70, H95.0–H95.1, I00–I01, I02.0, I02.9, L01–L08, M00, M02.8, M02.9, M46.2, M86, M87.1
Hodgkin's disease (5–34)	C81
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis (5–64)	K40–K46, K80–K81, K35–K37
Deficiency nutritional anemias (5–64)	D50–D53

MODE OF DELIVERY

- **Cesarean:**
  A delivery involving the surgical incision of the abdomen and uterine walls.
- **Forceps:**
  An assisted delivery employing forceps.
- **Spontaneous Breech:**
  An unassisted (spontaneous) delivery in which the buttocks or feet of the fetus appear first.
- **Spontaneous Vertex:**
  An unassisted (spontaneous) delivery in which the head of the fetus appears first.
- **Vacuum:**
  An assisted delivery employing suction or vacuum.

MVA DEATHS

Motor Vehicle Accidental Deaths.

NATURAL POPULATION GROWTH

The component increase in a population due to the number of live births less deaths. This increase may often be expressed as a rate, such as per 1,000 population.

NEONATAL DEATH

Death of a child under 28 days of age.

OBSERVED DEATHS

The actual number of deaths that occurred in the province to residents of a geographic area in a specified time period.

OBSERVED LOW BIRTH WEIGHT LIVE BIRTHS

The actual number of low birth weight live births that occurred in the province to residents of a geographic area in a specified time period.

OBSERVED PYLL

The actual number of potential years of life lost (to age 75) from deaths that occurred in the province to residents of a geographic area in a specified time period.

OUT-OF-WEDLOCK BIRTHS

Births where the mother of the baby is not lawfully married to the father of the baby.

P-VALUE

(See **Statistical Test**.)

PERINATAL

Pertaining to or occurring in the period shortly before, during, and after birth.

POPULATION

Mid-year population estimates used in the preparation of this report were obtained from BC STATS, Ministry of Management Services.

POST NEONATAL DEATH

Death of a child between the ages of 28 days and less than one year.

POST-TERM
(See **Gestational Age**.)

POTENTIAL YEARS OF LIFE LOST (PYLL)
The number of years of life lost when a person dies before a specified age (75 years). In this report, all deaths are assumed to occur at the midpoint of five-year age groups.
(See **Statistical Computation** for an example.)

PRE-TERM
(See **Gestational Age**.)

PYLL INDEX (PYLLI)
The ratio of an area's observed PYLL to its expected PYLL. This is a health status indicator.
(See **Statistical Computation** for an example.)

PYLL STANDARDIZED RATE (PYLLSR)
An age-standardized measure of an area's PYLL, expressed in terms of a rate per 1,000 population, adjusted to a standard population (1991 Canada Census). This is a health status indicator.
(See **Statistical Computation** for an example.)

PYLLI
(See **PYLL Index**.)

PYLLSR
(See **PYLL Standardized Rate**.)

QUINTILE
A ranking is derived by dividing a group (e.g., LHAs within British Columbia) into five subgroups, each with equal numbers of LHAs. These divisions are derived from a ranking of the group members according to the value of a measure, such as the SMR or the PYLLI.

SAM
(See **Smoking-attributable Mortality**.)

SAM(%)
(See **Smoking-attributable Mortality**.)

SIDS
Sudden Infant Death Syndrome.

SMOKING-ATTRIBUTABLE MORTALITY (SAM)
The absence on death certifications of complete and reliable data on smoking as a contributing factor requires that estimation or other techniques be used to approximate the extent of smoking-attributable deaths. Estimation methods, while not precise, may at least provide a general indication of the extent of such deaths. The method used here is based on the concept of attributable risk.

To define attributable risk mathematically, consider d_0 and d_1 respectively to represent the death rates, in a given time period, in two cohorts from a population — those not exposed and those exposed to a given risk factor. The attributable risk of this factor, AR_1, would then be:

$$AR_1 = \frac{d_1 - d_0}{d_1} = \frac{r_1 - 1}{r_1}$$

Where: $r_1 = d_1/d_0$ is the relative risk of the exposed cohort.

The relative risk of the unexposed cohort is $r_0 = 1$; the attributable risk of this cohort is $AR_0 = 0$.

The attributable risk (AR) for the population as a whole (exposed plus unexposed cohorts) is given by:

$$AR = \frac{p_1 (r_1 - 1)}{p_1 (r_1) + (1 - p_1) (r_0)} = \frac{(p_1) (r_1 - 1)}{(p_1) (r_1 - 1) + 1}$$

Where: $p_1 =$ the proportion or fraction of the population exposed to the risk factor; and

$1-p_1$ = the proportion or fraction of the population not exposed to the risk factor.

This may be extended to account for multiple levels of exposure, as follows:

$$AR = \frac{\sum_{i=1}^{n} p_i (r_i - 1)}{\sum_{i=1}^{n} p_i (r_i - 1) + 1}$$

Where: p_i = the proportion (prevalence) of the population in the ith level of exposure group;
r_i = the relative risk at the ith level of exposure; and
i = the ith risk category.

When applied to smoking-attributable mortality (SAM), the attributable risk is often expressed as a percentage:

$$SAM\ (\%) = AR \times 100$$

The number of adult (35+ years of age) smoking deaths in British Columbia was estimated for 19 diseases. Smoking-attributable deaths are derived by multiplying the smoking-attributable mortality percentage expressed as a decimal fraction by the number of deaths in each cause of death category listed below.

Cause of Death	ICD-10 Code(s)
Malignant Neoplasms	
Malignant neoplasm of lip, oral cavity, and pharynx	C00–C14
Malignant neoplasm of esophagus	C15
Malignant neoplasm of pancreas	C25
Malignant neoplasm of larynx	C32
Malignant neoplasm of trachea, lung, and bronchus	C33–C34
Malignant neoplasm of cervix, uterus	C53–C55
Malignant neoplasm of urinary bladder	C67
Malignant neoplasm of kidney and other unspecified urinary organs	C64–C66, C68
Circulatory System Diseases	
Hypertension	I10–I13
Ischemic heart disease	I20–I25
Other heart diseases	I01–I09, I27, I30–I52
Cerebrovascular disease	I60–I69
Atherosclerosis	I70
Aortic aneurysm	I71
Other arterial diseases	I26, I28, I72–I78
Respiratory System Diseases	
Pneumonia/influenza	J10–J18.1, J18.8–J18.9
Bronchitis, emphysema	J40–J43
Chronic obstructive pulmonary disease	J44
Other respiratory diseases	A15–A19, J45–J46

Relative-risk data from the American Society's Cancer Prevention Study (CPS-II) 1982–1988[3] were selected for use, as they have been widely used for similar analyses. The data from the CPS–II established the age groups and the classification of smokers (current, former, and never) for which smoking prevalence data were required. The relative risk age categories were for 35+, or 35–64 and 65+. B.C. prevalence rates for smoking were provided in the ***Tobacco Use in B.C. (1997)*** survey commissioned by the B.C. and Yukon Health and Stroke Foundation.[4]

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[3] Centers for Disease Control. (1990). ***Smoking and health: A national status report.*** (DHSS publication no. (CDC) 87–8396). 2nd Edition. Rockville, MD: U.S. Department of Health and Human Services.

[4] Tobacco Use in B.C., ANGUS REID GROUP survey results, September 1997.

SMR

(See **Standardized Mortality Ratio**.)

STANDARD POPULATION

A reference population of known age distribution used in the calculation of standardized indicators to adjust for variations in population age structures in different geographic areas or time periods. For SMR and PYLLI calculations the standard population is the British Columbia population for the year(s) concerned. The 1991 Canadian Census is used as the standard population in the calculation of ASMR and PYLLSR.

STANDARDIZED MORTALITY RATIO (SMR)

The ratio of the number of deaths occurring to residents of a geographic area (e.g., LHA) to the expected number of deaths in that area based on provincial age-specific mortality rates. The SMR is a good measure for comparing mortality data that are based on a small number of cases or for readily comparing mortality data by geographical area. SMR is an internationally recognized health status indicator.

(See **Age Standardization** and **Standard Population**; for an example see **Statistical Computation**.)

STATISTICAL COMPUTATION

The following provides the reader with computational examples of how various measures are calculated. In the examples, LHAs have been employed as the geographic unit of analysis. All data shown in the examples are hypothetical.

- **Age Standardized Mortality Rate (ASMR):**

Age Group (i)	Standard Population (π_i)	LHA Estimated Population (p_i)	LHA Death Rate/10,000 (m_i)	LHA Observed Deaths (d_i)
<1	403,061	1,339	22.4	3
1–4	1,550,285	5,483	1.8	1
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
80–84	382,303	1,198	701.2	84
85 +	287,877	908	1596.9	145
TOTAL	28,120,065	81,016		561

For the Local Health Area:

$$ASMR = \frac{\sum m_i \times \pi_i}{\prod} = \frac{22.4 \times 403{,}061 + \ldots + 1{,}596.9 \times 287{,}877}{28{,}120{,}065} = 46.2$$

Where: p_i = area population in age group i;
π_i = standard population in age group i;
$\prod = \Sigma\pi_i$ = total standard population;
d_i = deaths in LHA population in age group i; and
$m_i = d_i/p_i \times 10{,}000$ = mortality rate per 10,000 LHA population in age group i.

e.g., $m_i = \frac{3 \times 10{,}000}{1{,}339} = 22.4$, for age group 1.

- **Fertility Rate:**

Age Group (i)	LHA		
	Live Births (b_i)	Female Population (w_i)	Age Specific Fertility Rate ($ASFR_i$)
15–19	19	598	31.8
20–24	46	440	104.5
25–29	74	498	148.6
30–34	51	745	68.5
35–39	12	690	17.4
40–44	2	581	3.4
TOTAL	204	3,552	374.2

For the Local Health Area:

1) the age specific fertility rate (ASFR) for age group 15–19 years is:

$$ASFR_i = \frac{b_i}{w_i} \times 1{,}000 = \frac{19}{598} \times 1{,}000 = 31.8$$

Where: b_i = number of live births for age group i; and
w_i = number of female population for age group i.

2) the total fertility rate (TFR) is:

$$TFR = a \times \Sigma ASFR_i = 5 \times (31.8 + \ldots + 3.4) = 1{,}871$$

Where: $ASFR_i$ = age specific fertility rate for age group i; and
a = number of years in each age group i.

- **Low Birth Weight (LBW) Live Births:**

Year (i)	LHA			British Columbia	
	Low Birth Weight Live Births		Total Live Births	Low Birth Weight Live Births	Total Live Births
	Observed (O_i)	Expected (E_i)	(L_i)	Observed (b_i)	(B_i)
1995	92	82.9	1,701	2,096	42,989
1996	69	74.6	1,588	1,965	41,846
1997	102	80.2	1,582	2,113	41,655
1998	85	74.7	1,495	2,145	42,913
1999	91	78.1	1,501	2,267	43,586
TOTAL	439	390.6	7,867	10,586	212,989

For the Local Health Area:

1) the expected low birth weight live births for year i = 1995 were:

$$E_i = \frac{b_i}{B_i} \times L_i = \frac{2{,}096}{42{,}989} \times 1{,}701 = 82.9$$

Where: b_i = number of LBW live births for the province in year i;
B_i = number of live births for the province in year i; and
L_i = number of live births for the LHA.

2) the ratio of observed over the expected LBW live births for the five-year period was:

$$\text{Ratio} = \frac{\Sigma O_i}{\Sigma E_i} = \frac{92 + \ldots + 91}{82.9 + \ldots + 78.1} = \frac{439}{390.6} = 1.1$$

Where: O_i = observed LBW live births for year i; and
E_i = expected LBW live births for year i.

3) Chi-Square (χ^2) :

$$\chi^2 = \frac{(O - E)^2}{E} = \frac{(439 - 390.6)^2}{390.6} = 6.0$$

Where: $O = \Sigma O_i$ = total number of observed LBW live births; and
$E = \Sigma E_i$ = total number of expected LBW live births.

- **Potential Years of Life Lost (PYLL) and Standardized Rate (PYLLSR):**

Age Group (i)	Age Factor ($75–Y_i$)	Standard Population (π_i)	LHA Estimated Population (p_i)	LHA Death Rate/1,000 (m_i)	LHA Observed Deaths (d_i)	LHA Observed PYLL ($d_i(75–Y_i)$)
<1	74.5	403,061	1,339	2.2	3	223.5
1–4	72.0	1,550,285	5,483	0.2	1	72.0
5–9	67.5	1,953,045	6,553	0.2	1	67.5
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
65–69	7.5	1,084,588	3,538	18.7	66	495.0
70–74	2.5	834,024	2,779	28.8	80	200.0
TOTAL		28,120,065	79,140		239	3,183.0

For the Local Health Area:

$$PYLL = \Sigma d_i \times (75 - Y_i)$$

Where: d_i = number of deaths in age group i;
Y_i = age at midpoint of age group i; and
Σ = summation.

$$PYLLSR = \frac{\Sigma m_i \times \pi_i \times (75 - Y_i)}{\Pi} = \frac{2.2 \times 403{,}061 \times 74.5 + \ldots + 28.8 \times 834{,}024 \times 2.5}{28{,}120{,}065} = 37.0$$

Where: p_i = LHA population in age group i;
π_i = standard population in age group i;
$\Pi = \Sigma\pi_i$ = total standard population;
d_i = deaths in LHA population in age group i;
Y_i = age at midpoint of age group i; and
$m_i = (d_i/p_i) \times 1{,}000$ = mortality rate per 1,000 LHA population in age group i.

- **Potential Years of Life Lost Index (PYLLI):**

Note that this method is both age and gender standardized.

Age Group (i)	Gender (j)	Age Factor ($75–Y_{ij}$)	LHA Estimated Population (p_{ij})	LHA Death Rate/1,000 (m_{ij})	LHA Observed Deaths (d_{ij})	LHA Observed PYLL ($d_{ij}(75–Y_{ij})$)	LHA Expected PYLL ($e_{ij}(75–Y_{ij})$)	British Columbia Estimated Population (P_{ij})	British Columbia Death Rate/1,000 ($D_{ij}/P_{ij}\times1{,}000$)	British Columbia Observed Deaths (D_{ij})	British Columbia Observed PYLL ($D_{ij}(75–Y_{ij})$)
<1	M	74.5	1,339	2.2	3	223.5	766.3	42,700	7.7	328	24,436.0
<1	F	74.5	1,301	1.8	2	177.3	620.8	40,600	6.4	260	19,380.3
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
70–74	M	2.5	1,587	71.3	113	282.8	233.2	65,500	58.8	3,969	9,921.4
70–74	F	2.5	2,779	28.8	80	200.0	182.3	107,000	26.2	2,807	7,017.5
TOTAL			79,140		239	3,183.0	5,100.0	2,966,500		11,068	200,265.5

For the Local Health Area:

$$PYLLI = \frac{O}{E} = \frac{\sum d_{ij} \times (75 - Y_{ij})}{\sum e_{ij} \times (75 - Y_{ij})} = \frac{223.5 + 177.3 + \ldots + 282.8 + 200.0}{766.3 + 620.8 + \ldots + 233.2 + 182.3} = \frac{3,183}{5,100} = 0.6$$

Where: O = observed PYLL;
E = expected PYLL;
d_{ij} = observed deaths in age group i and gender j;
e_{ij} = expected deaths in age group i and gender j;
Y_{ij} = age at midpoint of age group i and gender j;
p_{ij} = LHA population for age group i and gender j;
P_{ij} = provincial population for age group i and gender j;
D_{ij} = provincial deaths for age group i and gender j.

1) Observed PYLL (O)

The number of potential years of life lost (PYLL) based on the number and age at death of deaths that occurred in the LHA. For example, for age group under one year of age and gender j, the observed PYLL are:
Observed PYLL = deaths × age factor = $d_{ij}(75\text{-}Y_{ij}) = 3 \times 74.5 = 223.5$

2) Expected PYLL (E)

The number of potential years of life lost (PYLL) expected for residents of the LHA based on the PYLL from the expected deaths in the age group. For example, for age group under one year of age and gender j, the expected PYLL are:

$$\text{Expected PYLL} = \text{expected deaths} \times \text{age factor} = e_{ij}(75 - Y_{ij}) = \frac{D_{ij}}{P_{ij}} \times p_{ij} \times (75 - Y_{ij})$$

$$= \frac{328}{42,700} \times 1,339 \times 74.5 = 766.3$$

- **Standardized Mortality Ratio (SMR):**

Age Group (i)	Gender (j)	LHA Estimated Population (p_{ij})	LHA Death Rate/1,000 (m_{ij})	LHA Observed Deaths (d_{ij})	LHA Expected Deaths (e_{ij})	British Columbia Estimated Population (P_{ij})	British Columbia Death Rate/1,000 (M_{ij})	British Columbia Observed Deaths (D_{ij})
<1	M	1,339	2.2	3	10.3	42,700	7.7	328
<1	F	1,301	1.8	2	8.3	40,600	6.4	260
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
85 +	M	1,198	70.1	84	87.2	48,100	72.8	3,502
85 +	F	908	159.7	145	138.8	34,500	152.8	5,272
TOTAL		81,016		561	595.1	3,131,700		23,389

Note that this method is both age and gender standardized.
For the Local Health Area:

$$SMR = \frac{\sum d_{ij}}{\sum e_{ij}} = \frac{3 + 2 + E + 110 + 145}{10.3 + 8.3 + E + 92.6 + 138.8} = \frac{561}{595.1} = 0.9$$

Where: d_{ij} = observed deaths in age group i and gender j; and
e_{ij} = expected deaths in age group i and gender j.

1) Observed Deaths (d)

The actual number of deaths that occurred in the LHA. For example, for age group under one year of age and gender j, the observed deaths are three.

2) Expected Deaths (e)

The number of deaths expected for residents of the LHA based on the age specific mortality rates for the province as a whole and the population age structure of the LHA. For age group under one year and gender j, the expected deaths are:

$$e_{ij} = \frac{D_{ij}}{P_{ij}} \times p_{ij} = \frac{328}{42{,}700} \times 1{,}339 = 10.3$$

Where: p_{ij} = LHA population for age group i and gender j;
D_{ij} = provincial death for age group i and gender j; and
P_{ij} = provincial population for age group i and gender j.

STATISTICAL TEST

- **P-VALUE**

The p-value is the probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. This probability is the smallest level of significance at which the null hypothesis would be rejected. Once the p-value has been determined, the conclusion at any particular level α results from comparing the p-value to α (e.g., 0.05):

(a) p-value $\leq \alpha \Rightarrow$ reject null hypothesis at level α,

(b) p-value $> \alpha \Rightarrow$ do not reject the null hypothesis at level α,

and we call the data statistically significant when the null hypothesis is rejected and not significant otherwise.

- For rates, such as ASMRs, the test employed to determine statistical significance is a confidence interval. The 95% confidence interval for the difference (D) between a LHA and a provincial rate is defined by the upper and lower limits of the interval as follows:

$$\textit{Lower Limit} = D - 1.96 \sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

$$\textit{Upper Limit} = D + 1.96 \sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

Where: R_l = Rate for LHA *l*;
R_p = Rate for the province;
O_l = Observed number for LHA *l*; and
O_p = Observed number for the province.

If the Lower Limit > 0, then R_l is statistically significantly higher than R_p;
if the Upper Limit < 0, then R_l is statistically significantly lower than R_p; otherwise,
there is no statistically significant difference.

- For ratios, such as SMRs, a Chi-square ($\chi 2$) test is applied to determine whether the observed number of cases is statistically significantly different from the expected number. For LHA *l*:

$$\chi_l^2 = \frac{(O_l - E_l)^2}{E_l}$$

(with one degree of freedom).

Where: O_l = Observed number for LHA *l*; and
E_l = Expected number for LHA *l*.

If $\chi_l^2 > 3.84$, the ratio is statistically significant at 5% significance level.

- For SMR values, the Chi-square statistic that is applied is:

$$\chi_l^2 = 9\hat{i}_l\left(1 - \frac{1}{9\hat{i}_l} - \left(\frac{E_l}{\hat{i}_l}\right)^{1/3}\right)^2$$

Where: $\hat{O}_l = O_l$ *if* $O_l > E_l$; *otherwise*
$\hat{O}_l = O_l + 1$.

STILLBIRTH

The ***Vital Statistics Act*** defines a stillbirth as "The complete expulsion or extraction from its mother after at least 20 weeks of pregnancy, or after attaining a weight of at least 500 grams, of a product of conception in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord, or unmistakable movement of voluntary muscle."

The definition of a stillbirth has changed over the years. From July 1, 1962 until January 1, 1986, the definition of a stillbirth did not include the phrase "or after attaining a weight of at least 500 grams." From 1950 until July 1, 1962, the definition of a stillbirth was: the birth of a viable fetus after at least 28 weeks pregnancy in which pulmonary respiration does not occur, whether death occurs before, during, or after birth.

STILLBIRTH RATE

(See **Crude Rates.**)

TEENAGE MOTHERS

Mothers less than 20 years of age.

TERM

(See **Gestational Age**.)

TFR

(See **Total Fertility Rate**.)

TOTAL BIRTHS

The number of live births plus stillbirths.

TOTAL FERTILITY RATE (TFR)

The rate is calculated by summing all of the age-specific birth rates multiplied by the number of years by which the age-specific birth rates are grouped (this assumes the same number of women in each age group). "The total fertility rate indicates the number of births that a group of 1,000 women would have if they experienced, during their childbearing years (i.e., age 15 to 44 years), the age-specific birth rates observed in a given calendar year. It is a hypothetical measure that shows the implications of current levels of fertility by age for completed family size." (National Center for Health Statistics. Supplements to the monthly vital statistics report: advance reports, 1987. National Center for Health Statistics. Vital Health Stat 24 (4) p. 5. 1990.)

(See **Statistical Computation** for an example.)

TOTAL PYLL

The total number of potential years of life lost prior to an established cut-off point of 75 years.

VERY LOW BIRTH WEIGHT

A birth weight of less than 1,500 grams.

UCOD

(See **Underlying Cause of Death.**)

UNDERLYING CAUSE OF DEATH (UCOD)
The World Health Organization defines the underlying cause of death as "(a) the disease of injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury."

VACUUM
(See **Mode of Delivery**.)

VERTEX
(See **Mode of Delivery**.)

Vital Statistics Information Box

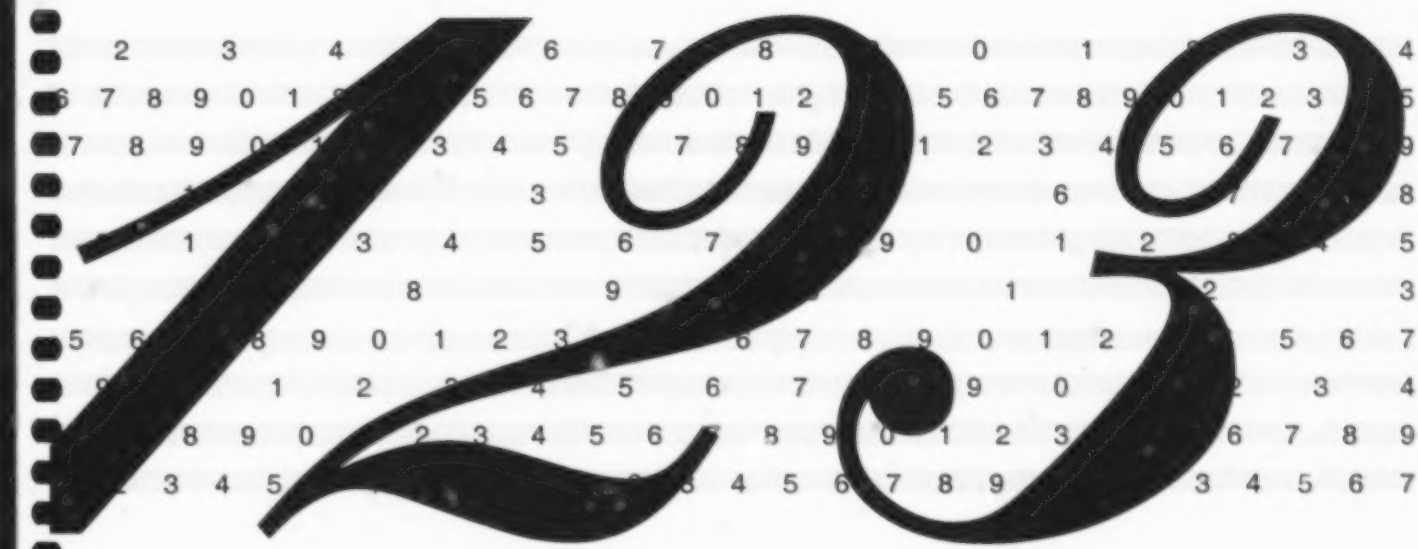
Selected Maternal Complications of Pregnancy and Delivery

For more than a decade, the *Annual Report* of the B.C. Vital Statistics Agency has included a table providing information on maternal complications of pregnancy and delivery. With the introduction of the tenth revision of the International Classification of Diseases (ICD-10) in 2000, more specific codes are available than in earlier versions. As a result, additional categories of maternal complications were used in Table 17 Selected Maternal Complications of Pregnancy and Delivery in Live Births by Age of Mother. The table below shows the ICD-9 and ICD-10 codes used for each category.

Maternal Complications	ICD-9 Code(s)	ICD-10 Code(s)
Antepartum or intrapartum hemorrhage	640–641	O20, O44.1, O45–O46, O67
Hypertension/eclampsia	642	O10–O11, O13–O16
Early or threatened labour	644	O60
Prolonged pregnancy	645	O48
Hyperemesis gravidarum	643	O21
Infective and parasitic conditions	646.6, 647, 670, 675	O23, O26.4, O75.2–O75.3, O85–O86, O91, O98
Diabetes in pregnancy**	648.0, 648.8	O24
Malposition and malpresentation	652	O32, O64
Disproportion	653	O33, O65
Abnormality of pelvic organs and structures	654.0–654.1, 654.3–654.9	O34
Obstructed labour	660	O66
Abnormality of forces of labour	661	O62
Vaginal birth after previous cesarean section	654.2	O75.7
Maternal care for fetal abnormality or damage	655–656	O35–O36
Other problems of amniotic cavity or membranes	657–658, 667	O40–O44.0, O73, O75.5–O75.6
Umbilical cord complications	663	O69
Prolonged labour	662	O63
Obstetrical trauma	664–665	O70–O71
Postpartum hemorrhage	666	O72, O74
Multiple gestation and related complications	651	O30, O31*
Assisted or surgical delivery, no indication given	669.5, 669.7	O81, O82–O83*, O84.1–O84.8*
Elderly primigravida	659.5	Z35.5
Maternal complications of anaesthesia	668	O74, O89
Maternal venous complications	671	O22, O87
Other maternal complications of pregnancy, labour or delivery and puerperium**	646.0–646.5, 646.7–656.9, 648.1–648.7, 648.9, 659.0–659.4, 659.8–659.9, 669.0–669.4, 669.6, 669.8–669.9, 672–674, 676	O12, O25–O26.3, O26.5–O26.9, O47, O61, O68, O75.0–O75.1, O75.4, O75.8–O75.9, O88, O90, O92, O95–O97, O99
All selected maternal complications	**640–648, 652–676**	**O10–O26, O30–O75, O81–O83, O84.1–O84.8, O85–O99, Z35.5**

Note: *ICD-10 codes with no ICD-9 equivalent.
**ICD-9 code 648.9 is no longer included in the "Diabetes in pregnancy" category.
ICD-9 codes 630–639 and ICD-10 codes O00–O08 are not included due to the abortive outcome of these conditions.

References



List of Reports and Publications, 2002 and 2003 to Date

The Vital Statistics Agency continues to be actively involved in the preparation of various reports that present and analyze British Columbia's vital event data. The following is a list of the most recent publications by the Agency:

British Columbia Vital Statistics Agency, Ministry of Health Planning (produced for the First Nations and Inuit Health Branch, Health Canada). *Regional Analysis of Health Statistics for Status Indians in British Columbia, 1991–2001, Birth Related and Mortality Summaries, British Columbia and 16 Health Service Delivery Areas.*

British Columbia Vital Statistics Agency, Ministry of Health Planning. *Selected Vital Statistics and Health Status Indicators: One Hundred Thirtieth Annual Report 2001.*

British Columbia Vital Statistics Agency, Ministry of Health Planning. *Health Status Registry Report, Congenital Anomalies, Genetic Defects, Selected Disabilities, Includes British Columbia Birth Data to Year 2000.*

British Columbia Vital Statistics Agency, Ministry of Health Planning. *Pregnancy Counts and Rates by Age Groups by Health Region, British Columbia, 1992 to 2000*

Kashaninia, Z. "Accidental Falls Mortality in British Columbia, 1990–2000," *Quarterly Digest*, 11 (3 & 4), May, 2002.

Kashaninia, Z., Pelletier R., "Leukemia Mortality in British Columbia, 1986-2000" *Quarterly Digest*, 12 (2), December, 2002.

Internet Sources of Vital Statistics Information

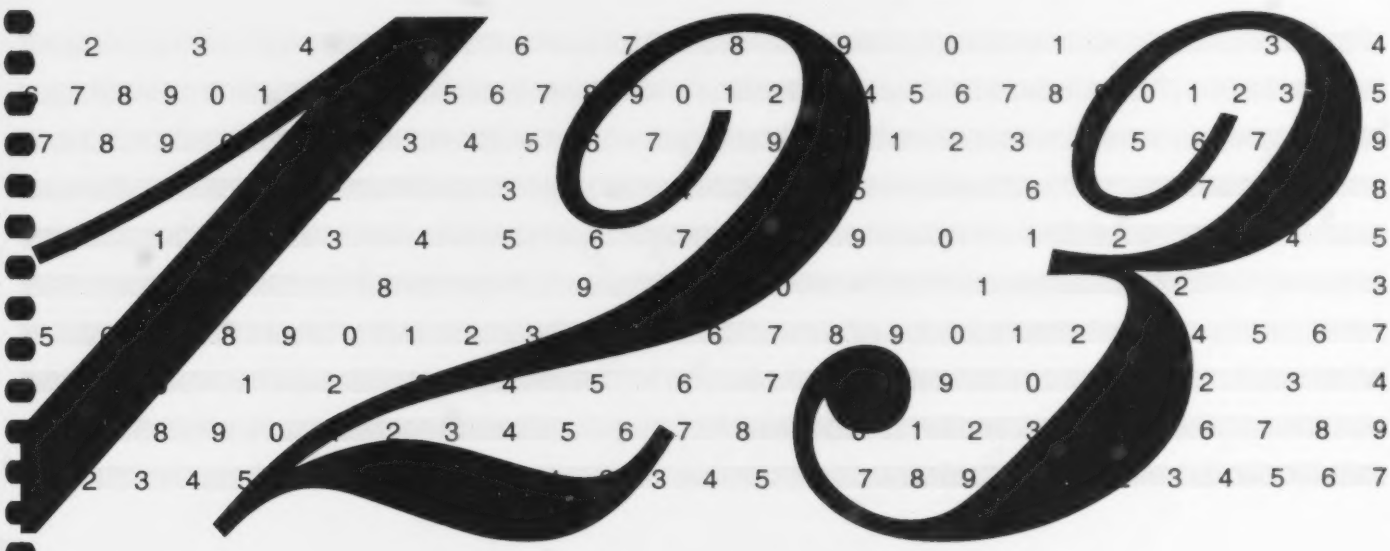
The Agency's Information and Resource Management branch web pages (http://www.vs.gov.bc.ca/) include copies of recent annual reports, quarterly reports (*Quarterly Digest* tables and articles), health status indicators, popular baby names, and feature reports including the *Analysis of Status Indians in British Columbia*. Copies of most reports can be downloaded from the Portable Document Files pages.

Vital statistics mortality data are also available on the Health Data Warehouse, Ministry of Health Services. Access to this Ministry intranet site is limited to authorized users.

BC STATS (http://www.bcstats.gov.bc.ca/data/pop/popstart.htm) presents statistics derived from census. BC STATS produces all the population estimates used in Agency reports; population estimates and other statistics can be downloaded from their website.

Appendix 1

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA, AND COMMUNITY, BRITISH COLUMBIA, 2002



Preamble to Appendix 1

British Columbia is a large, geographically diverse province. The majority of the population is concentrated in the southwestern corner of the province, with the majority of the remaining population concentrated in the major cities of Kelowna, Kamloops, Prince George, and Nanaimo, or along the border with the United States. Large areas of the province are sparsely populated. Health care services tend to be concentrated in the areas of greater population, especially in the metropolitan areas of Vancouver and Victoria.

Appendix 1 provides summary details of the 2002 vital statistics for Health Authorities (HA), Health Service Delivery Areas (HSDA), Local Health Areas (LHA), and incorporated communities. The LHAs are the lowest level of geographic data aggregation; they are the building blocks upon which HSDA and HA information is aggregated. Information presented in this appendix includes the number of live births, stillbirths, and deaths by gender, and the number of marriages. Live births and stillbirths are assigned to the geographic areas based on usual residence of the mother. Deaths are assigned to geographic areas based on the usual residence of the decedent. Marriages are assigned to geographic areas based on the place where the marriage ceremony was performed, and include non-residents.

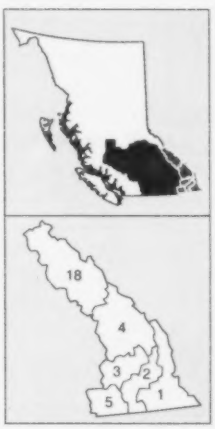
Population estimates, and life expectancy at birth (1998–2002) were obtained from BC STATS, Ministry of Management Services.

APPENDIX 1

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

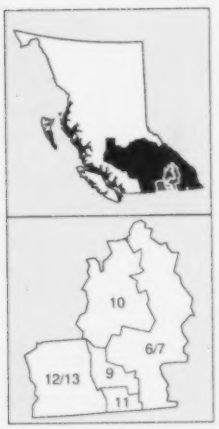
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 11 EAST KOOTENAY									
LHA 001 Fernie		M	8,311	48	40		-	36.4	78.3
		F	7,583	65	35		-	37.1	83.6
		T	15,894	113	75	76	-	36.8	80.8
Elkford	DM	M		7	4		-		
		F		12	3		-		
		T	2,735	19	7	8	-		
Fernie	C	M		11	18		-		
		F		21	17		-		
		T	4,914	32	35	42	-		
Sparwood	DM	M		19	9		-		
		F		24	8		-		
		T	4,137	43	17	11	-		
LHA 002 Cranbrook		M	12,817	117	86		-	37.2	77.9
		F	12,943	110	76		1	38.7	81.7
		T	25,760	227	162	130	1	38.0	79.8
Cranbrook	C	M		94	72		-		
		F		93	69		1		
		T	19,653	187	141	90	1		
LHA 003 Kimberley		M	4,372	27	40		1	41.6	78.9
		F	4,439	24	50		-	43.3	81.5
		T	8,811	51	90	49	1	42.5	80.3
Kimberley	C	M		22	38		1		
		F		20	45		-		
		T	6,862	42	83	35	1		
LHA 004 Windermere		M	4,876	29	35		-	38.2	78.8
		F	4,721	23	22		-	38.5	87.4
		T	9,597	52	57	112	-	38.3	82.6
Invermere	DM	M		13	19		-		
		F		8	9		-		
		T	3,030	21	28	29	-		
Radium Hot Springs	VL	M		6	5		-		
		F		4	2		-		
		T	649	10	7	18	-		
LHA 005 Creston		M	6,181	70	65		-	42.0	76.8
		F	6,300	63	52		-	43.9	81.7
		T	12,481	133	117	56	-	42.9	79.2
Creston	T	M		29	43		-		
		F		18	43		-		
		T	4,908	47	86	36	-		
LHA 018 Golden		M	3,996	35	22		-	34.8	76.2
		F	3,669	41	14		-	35.0	81.7
		T	7,665	76	36	95	-	34.9	78.6
Golden	T	M		25	17		-		
		F		32	13		-		
		T	4,341	57	30	54	-		
TOTAL		**M**	**40,553**	**326**	**288**		**1**	**38.1**	**78.0**
		F	**39,655**	**326**	**249**		**1**	**39.4**	**82.5**
		T	**80,208**	**652**	**537**	**518**	**2**	**38.7**	**80.2**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002



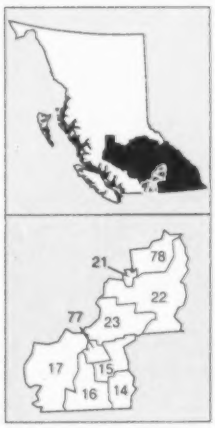
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 12 KOOTENAY BOUNDARY									
LHA 006 Kootenay Lake		M	1,816	29	12		-	40.7	73.9
		F	1,741	14	9		-	42.3	89.8
		T	3,557	43	21	26	-	41.5	80.1
Kaslo	VL	M		15	5		-		
		F		8	7		-		
		T	1,041	23	12	15	-		
LHA 007 Nelson		M	12,249	109	95		-	38.5	77.3
		F	12,267	97	83		-	40.2	82.2
		T	24,516	206	178	130	-	39.3	79.7
Nelson	C	M		51	36		-		
		F		43	46		-		
		T	9,571	94	82	69	-		
Salmo	VL	M		11	9		-		
		F		8	5		-		
		T	1,162	19	14	4	-		
Slocan	VL	M		-	3		-		
		F		1	1		-		
		T	349	1	4	2	-		
LHA 009 Castlegar		M	6,742	49	66		1	38.4	76.3
		F	6,624	48	56		-	40.2	81.9
		T	13,366	97	122	48	1	39.3	79.1
Castlegar	C	M		28	43		-		
		F		30	36		-		
		T	7,248	58	79	33	-		
LHA 010 Arrow Lakes		M	2,654	19	24		-	40.7	77.7
		F	2,564	14	18		-	42.5	79.8
		T	5,218	33	42	34	-	41.6	78.8
Nakusp	VL	M		12	15		-		
		F		8	7		-		
		T	1,786	20	22	24	-		
New Denver	VL	M		2	3		-		
		F		-	8		-		
		T	559	2	11	3	-		
Silverton	VL	M		1	1		-		
		F		3	1		-		
		T	229	4	2	2	-		
LHA 011 Trail		M	9,974	63	103		-	39.8	76.1
		F	10,334	57	112		-	42.4	82.1
		T	20,308	120	215	92	-	41.1	79.1
Fruitvale	VL	M		15	13		-		
		F		11	8		-		
		T	2,052	26	21	23	-		
Montrose	VL	M		3	12		-		
		F		2	4		-		
		T	1,097	5	16	2	-		
Rossland	C	M		15	12		-		
		F		16	16		-		
		T	3,739	31	28	14	-		
Trail	C	M		18	55		-		
		F		21	72		-		
		T	8,060	39	127	43	-		
Warfield	VL	M		8	6		-		
		F		5	7		-		
		T	1,815	13	13	2	-		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
LHA 012 Grand Forks		M	4,556	33	37		-	42.0	77.0
		F	4,447	32	44		1	44.2	82.1
		T	9,003	65	81	38	2	43.1	79.4
Grand Forks	C	M		29	36		-		
		F		29	38		1		
		T	4,099	58	74	27	1		
LHA 013 Kettle Valley		M	1,914	14	20		-	41.9	77.2
		F	1,694	10	11		-	41.7	93.8
		T	3,608	24	31	10	-	41.8	81.9
Greenwood	C	M		1	10		-		
		F		4	6		-		
		T	677	5	16	2	-		
Midway	VL	M		5	4		-		
		F		1	3		-		
		T	647	6	7	2	-		
TOTAL		**M**	**39,905**	**316**	**357**		**1**	**39.6**	**76.6**
		F	**39,671**	**272**	**333**		**1**	**41.5**	**82.1**
		T	**79,576**	**588**	**690**	**378**	**3**	**40.6**	**79.3**
HSDA 13 OKANAGAN									
LHA 014 Southern Okanagan		M	8,952	59	118		-	46.3	77.9
		F	9,346	47	135		1	48.1	82.4
		T	18,298	106	253	94	1	47.2	80.1
Oliver	T	M		32	64		-		
		F		23	77		1		
		T	4,357	55	141	31	1		
Osoyoos	T	M		22	42		-		
		F		12	45		-		
		T	4,399	34	87	37	-		
LHA 015 Penticton		M	19,113	148	248		2	43.0	77.9
		F	20,825	143	239		2	45.2	83.4
		T	39,938	291	487	210	4	44.1	80.7
Penticton	C	M		126	229		2		
		F		124	226		1		
		T	32,202	250	455	177	3		
LHA 016 Keremeos		M	2,460	21	31		-	45.4	75.5
		F	2,405	18	25		-	45.4	80.5
		T	4,865	39	56	19	-	45.4	77.7
Keremeos	VL	M		14	24		-		
		F		11	15		-		
		T	1,264	25	39	9	-		
LHA 017 Princeton		M	2,361	10	19		-	44.8	74.9
		F	2,317	7	29		-	44.2	78.1
		T	4,678	17	48	39	1	44.5	75.9
Princeton	T	M		9	19		-		
		F		7	29		-		
		T	2,692	16	48	30	1		
LHA 021 Armstrong-Spallumcheen		M	4,842	34	41		1	38.5	76.9
		F	5,099	29	33		-	40.0	83.7
		T	9,941	63	74	35	1	39.3	80.3
Armstrong/ Spallumcheen	C/DM	M		34	41		1		
		F		29	33		-		
		T	9,969	63	74	35	1		



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

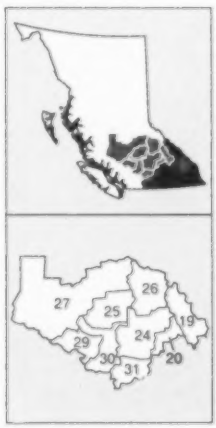
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
LHA 022 Vernon		M	29,195	248	279		2	39.7	77.0
		F	30,643	268	268		1	41.7	82.1
		T	59,838	516	547	306	3	40.8	79.6
Coldstream	DM	M		29	33		-		
		F		29	25		-		
		T	9,564	58	58	50	-		
Lumby	VL	M		26	17		-		
		F		24	8		-		
		T	1,722	50	25	21	-		
Vernon	C	M		155	200		2		
		F		179	208		1		
		T	35,147	334	408	189	3		
LHA 023 Central Okanagan		M	75,867	660	697		2	39.7	79.1
		F	79,714	639	673		7	41.9	83.9
		T	155,581	1,299	1,370	880	10	40.8	81.5
Kelowna	C	M		465	519		2		
		F		443	522		3		
		T	101,592	908	1,041	668	6		
Lake Country	DM	M		32	21		-		
		F		34	24		1		
		T	9,750	66	45	66	1		
Peachland	DM	M		10	18		-		
		F		8	19		-		
		T	4,987	18	37	30	-		
LHA 077 Summerland		M	5,518	32	88		-	44.0	78.6
		F	5,953	33	85		-	46.2	81.4
		T	11,471	65	173	87	-	45.1	80.0
Summerland	DM	M		32	88		-		
		F		33	85		-		
		T	11,044	65	173	87	-		
LHA 078 Enderby		M	3,610	27	40		-	39.8	73.5
		F	3,658	27	28		-	40.6	81.1
		T	7,268	54	68	47	-	40.2	77.0
Enderby	C	M		23	36		-		
		F		23	27		-		
		T	2,957	46	63	42	-		
TOTAL		**M**	**151,918**	**1,239**	**1,561**		**7**	**40.8**	**78.1**
		F	**159,960**	**1,211**	**1,515**		**11**	**42.8**	**83.1**
		T	**311,878**	**2,450**	**3,076**	**1,717**	**20**	**41.8**	**80.6**
HSDA 14 THOMPSON CARIBOO SHUSWAP									
LHA 019 Revelstoke		M	4,340	48	28		-	36.6	74.0
		F	4,197	25	26		-	37.9	81.9
		T	8,537	73	54	50	-	37.2	77.8
Revelstoke	C	M		48	28		-		
		F		24	26		-		
		T	7,945	72	54	50	-		
LHA 020 Salmon Arm		M	15,853	101	154		-	41.3	77.6
		F	16,242	108	137		-	42.9	83.1
		T	32,095	209	291	187	-	42.1	80.2
Salmon Arm	DM	M		54	84		-		
		F		66	95		-		
		T	15,911	120	179	114	-		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
Sicamous	DM	M		14	13		-		
		F		9	8		-		
		T	2,906	23	21	30	-		
LHA 024 Kamloops		M	51,434	448	431		3	37.6	75.9
		F	52,169	412	356		1	38.9	81.5
		T	103,603	860	787	568	4	38.3	78.6
Chase	VL	M		15	32		1		
		F		23	21		-		
		T	2,548	38	53	20	1		
Kamloops	C	M		386	339		2		
		F		342	293		1		
		T	81,443	728	632	472	3		
Logan Lake	DM	M		4	8		-		
		F		8	4		-		
		T	2,331	12	12	10	-		
LHA 025 100 Mile House		M	7,356	46	64		1	41.0	77.5
		F	7,031	51	50		-	40.2	79.1
		T	14,387	97	114	95	1	40.6	78.2
100 Mile House	DM	M		30	36		-		
		F		29	31		-		
		T	1,843	59	67	55	-		
LHA 026 North Thompson		M	2,631	26	11		-	36.4	78.1
		F	2,415	28	16		-	35.9	81.6
		T	5,046	54	27	27	-	36.1	79.4
LHA 027 Cariboo-Chilcotin		M	14,718	143	81		-	35.5	75.3
		F	14,031	146	73		1	35.7	80.9
		T	28,749	289	154	118	1	35.6	78.0
Williams Lake	C	M		71	37		-		
		F		79	42		1		
		T	11,730	150	79	68	1		
LHA 029 Lillooet		M	2,519	31	16		-	35.9	72.4
		F	2,370	29	16		-	36.5	80.4
		T	4,889	60	32	19	-	36.2	76.0
Lillooet	DM	M		29	14		-		
		F		25	16		-		
		T	2,820	54	30	15	-		
LHA 030 South Cariboo		M	4,035	20	49		-	40.3	73.9
		F	3,727	31	34		-	40.3	81.7
		T	7,762	51	83	31	-	40.3	77.4
Ashcroft	VL	M		3	20		-		
		F		11	17		-		
		T	1,875	14	37	9	-		
Cache Creek	VL	M		5	16		-		
		F		5	7		-		
		T	1,123	10	23	5	-		
Clinton	VL	M		5	2		-		
		F		6	3		-		
		T	661	11	5	13	-		
Lytton	VL	M		7	7		-		
		F		7	6		-		
		T	353	14	13	4	-		

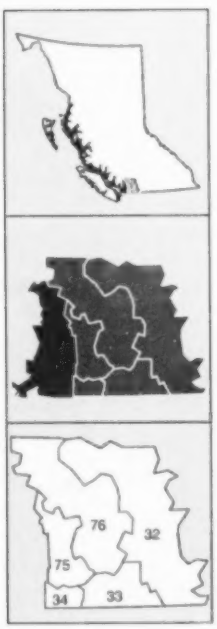


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
LHA 031 Merritt		M	5,785	54	49		-	36.8	73.5
		F	5,731	55	51		1	37.3	78.9
		T	11,516	109	100	54	1	37.0	76.1
Merritt	C	M		40	40		-		
		F		42	45		1		
		T	7,549	82	85	39	1		
TOTAL		**M**	**108,671**	**917**	**883**		**4**	**38.1**	**75.9**
		F	**107,913**	**885**	**759**		**3**	**38.9**	**81.3**
		T	**216,584**	**1,802**	**1,642**	**1,139**	**7**	**38.5**	**78.5**
HA 01 INTERIOR TOTAL		**M**	**341,047**	**2,798**	**3,089**		**13**	**39.5**	**77.2**
		F	**347,199**	**2,694**	**2,856**		**16**	**41.1**	**82.4**
		T	**688,246**	**5,492**	**5,945**	**3,752**	**32**	**40.3**	**79.8**
HSDA 21 NORTH FRASER									
LHA 032 Hope		M	4,492	41	31		1	40.0	73.4
		F	4,224	27	46		1	41.3	80.0
		T	8,716	68	77	43	2	40.7	76.5
Hope	DM	M		35	29		1		
		F		24	43		1		
		T	6,521	59	72	37	2		
LHA 033 Chilliwack		M	36,629	435	322		6	36.9	76.9
		F	37,795	355	270		5	38.9	82.0
		T	74,424	790	592	408	11	37.9	79.5
Chilliwack	C	M		416	297		6		
		F		339	255		5		
		T	66,611	755	552	391	11		
LHA 034 Abbotsford		M	62,269	801	441		5	35.1	78.0
		F	62,625	764	411		7	37.3	82.6
		T	124,894	1,565	852	537	13	36.2	80.3
Abbotsford	C	M		799	439		5		
		F		760	411		7		
		T	124,591	1,559	850	535	13		
LHA 075 Mission		M	19,358	232	137		2	35.3	76.1
		F	18,520	190	106		1	36.2	80.6
		T	37,878	422	243	184	3	35.8	78.2
Mission	DM	M		211	115		2		
		F		165	93		1		
		T	32,907	376	208	169	3		
LHA 076 Agassiz-Harrison		M	4,581	36	38		-	37.5	74.1
		F	3,767	43	21		-	38.7	80.0
		T	8,348	79	59	95	-	38.0	76.7
Harrison Hot Springs	VL	M		7	9		-		
		F		6	-		-		
		T	1,513	13	9	37	-		
Kent		M		29	29		-		
		F		37	21		-		
		T	5,265	66	50	58	-		
TOTAL		**M**	**127,329**	**1,545**	**969**		**14**	**35.9**	**77.1**
		F	**126,931**	**1,379**	**854**		**14**	**37.8**	**82.0**
		T	**254,260**	**2,924**	**1,823**	**1,267**	**29**	**36.9**	**79.5**

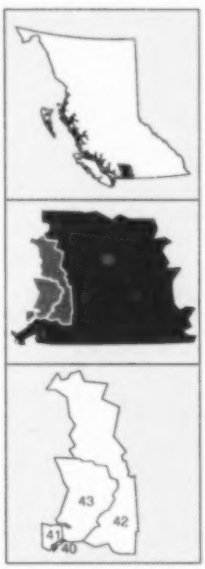


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

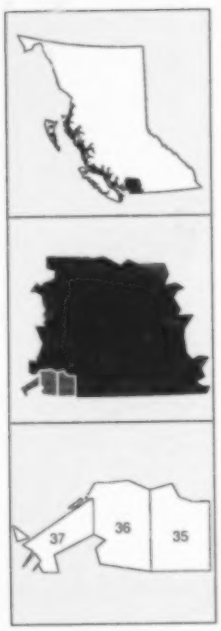
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 22 WEST FRASER									
LHA 040 New Westminster		M	28,474	348	204		3	38.1	75.2
		F	29,129	304	263		2	41.0	81.9
		T	57,603	652	467	336	5	39.6	78.6
New Westminster	C	M		348	204		3		
		F		304	263		2		
		T	57,603	652	467	336	5		
LHA 041 Burnaby		M	101,642	1,071	665		10	36.8	78.0
		F	104,313	1,054	627		5	39.0	83.4
		T	205,955	2,125	1,292	847	15	37.9	80.8
Burnaby	C	M		1,071	665		10		
		F		1,054	627		5		
		T	205,955	2,125	1,292	847	15		
LHA 042 Maple Ridge		M	42,233	459	269		1	34.8	77.1
		F	42,300	391	261		2	36.5	81.2
		T	84,533	850	530	355	4	35.6	79.2
Maple Ridge	DM	M		366	235		1		
		F		312	233		-		
		T	68,527	678	468	257	2		
Pitt Meadows	DM	M		93	34		-		
		F		78	27		2		
		T	15,755	171	61	95	2		
LHA 043 Coquitlam		M	102,039	1,057	429		9	34.5	78.3
		F	102,444	988	437		6	36.2	82.8
		T	204,483	2,045	866	649	16	35.3	80.7
Anmore	VL	M		11	-		-		
		F		10	1		-		
		T	1,426	21	1	3	-		
Belcarra	VL	M		5	-		-		
		F		2	2		-		
		T	716	7	2	8	-		
Coquitlam	C	M		585	251		7		
		F		522	270		6		
		T	120,967	1,107	521	416	13		
Port Coquitlam	C	M		314	128		1		
		F		307	134		-		
		T	55,793	621	262	112	2		
Port Moody	C	M		142	50		1		
		F		147	30		-		
		T	25,545	289	80	110	1		
TOTAL		**M**	**274,388**	**2,935**	**1,567**		**23**	**35.8**	**77.6**
		F	**278,186**	**2,737**	**1,588**		**15**	**37.8**	**82.7**
		T	**552,574**	**5,672**	**3,155**	**2,187**	**40**	**36.8**	**80.3**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002



Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 23 CENTRAL FRASER									
LHA 035 Langley		M	57,458	617	339		4	36.1	78.1
		F	58,754	594	381		6	37.8	82.2
		T	116,212	1,211	720	637	10	37.0	80.2
Langley	C	M		143	91		1		
		F		144	111		1		
		T	24,682	287	202	233	2		
Langley	DM	M		474	245		3		
		F		450	267		5		
		T	90,997	924	512	403	8		
LHA 036 Surrey		M	197,062	2,489	1,144		14	35.4	78.3
		F	199,378	2,416	1,104		20	37.3	83.6
		T	396,440	4,905	2,248	1,519	35	36.4	81.0
Surrey	C	M		2,416	1,008		14		
		F		2,362	931		20		
		T	376,757	4,778	1,939	1,406	34		
White Rock	C	M		73	136		-		
		F		54	173		-		
		T	19,408	127	309	109	1		
LHA 037 Delta		M	50,540	542	273		2	36.6	80.2
		F	51,190	455	279		6	38.0	83.1
		T	101,730	997	552	316	9	37.3	81.7
Delta	DM	M		540	273		2		
		F		455	278		6		
		T	101,226	995	551	315	9		
TOTAL		**M**	**305,060**	**3,648**	**1,756**		**20**	**35.7**	**78.6**
		F	**309,322**	**3,465**	**1,764**		**32**	**37.5**	**83.2**
		T	**614,382**	**7,113**	**3,520**	**2,472**	**54**	**36.6**	**80.9**
HA 02 FRASER TOTAL		**M**	**706,777**	**8,128**	**4,292**		**57**	**35.8**	**77.9**
		F	**714,439**	**7,581**	**4,206**		**61**	**37.7**	**82.8**
		T	**1,421,216**	**15,709**	**8,498**	**5,926**	**123**	**36.7**	**80.4**
HSDA 31 RICHMOND									
LHA 038 Richmond		M	85,056	836	382		7	36.2	80.4
		F	89,561	747	439		4	38.3	84.6
		T	174,617	1,583	821	932	11	37.3	82.6
Richmond	C	M		836	382		7		
		F		747	439		4		
		T	174,617	1,583	821	932	11		
TOTAL		**M**	**85,056**	**836**	**382**		**7**	**36.2**	**80.4**
		F	**89,561**	**747**	**439**		**4**	**38.3**	**84.6**
		T	**174,617**	**1,583**	**821**	**932**	**11**	**37.3**	**82.6**

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 32 VANCOUVER									
LHA 161 Vancouver		M	49,356	412	337		5	38.9	75.4
City Centre		F	47,788	386	310		1	40.3	82.5
		T	97,144	798	647	904	6	39.6	78.9
LHA 162 Vancouver		M	28,424	214	327		1	39.9	67.5
Downtown		F	23,917	231	176		4	39.6	78.9
East Side		T	52,341	445	503	555	5	39.8	71.9
LHA 163 Vancouver		M	49,590	614	301		4	36.1	78.0
North East		F	50,451	511	278		3	37.9	83.0
		T	100,041	1,125	579	451	8	37.0	80.5
LHA 164 Vancouver		M	59,841	588	321		5	37.3	80.6
West Side		F	65,522	524	463		2	39.9	84.6
		T	125,363	1,112	784	1,080	7	38.7	82.8
LHA 165 Vancouver		M	43,612	532	285		8	35.8	76.8
Midtown		F	44,735	454	245		5	37.6	83.3
		T	88,347	986	530	300	14	36.7	80.1
LHA 166 Vancouver		M	62,103	633	398		3	36.7	79.3
South		F	66,268	578	447		3	39.1	84.1
		T	128,371	1,211	845	373	8	37.9	81.8
TOTAL		**M**	**292,926**	**2,993**	**1,978**		**26**	**37.3**	**76.8**
		F	**298,681**	**2,585**	**1,922**		**18**	**39.1**	**83.2**
		T	**591,607**	**5,578**	**3,900**	**3,663**	**48**	**38.2**	**80.0**
HSDA 33 NORTH SHORE COAST GARIBALDI									
LHA 044 North Vancouver		M	65,926	618	385		4	37.2	79.6
		F	69,387	640	437		4	39.3	82.8
		T	135,313	1,258	822	470	9	38.3	81.3
North Vancouver	C	M		220	144		1		
		F		217	181		3		
		T	47,893	437	325	187	4		
North Vancouver	DM	M		396	237		3		
		F		419	252		1		
		T	85,720	815	489	282	5		
LHA 045 West Vancouver-Bowen Is.		M	23,825	140	214		2	42.3	81.2
		F	26,580	157	238		-	44.9	84.8
		T	50,405	297	452	328	2	43.7	83.2
Bowen Island	IM	M		11	4		-		
		F		16	3		-		
		T	3,158	27	7	22	-		
Lions Bay	VL	M		7	4		-		
		F		8	2		-		
		T	1,425	15	6	15	-		
West Vancouver	DM	M		115	195		1		
		F		124	216		-		
		T	42,778	239	411	281	1		
LHA 046 Sunshine Coast		M	13,211	87	115		-	41.7	77.7
		F	13,821	102	100		-	42.6	82.8
		T	27,032	189	215	134	-	42.2	80.2
Gibsons	T	M		25	33		-		
		F		38	34		-		
		T	4,094	63	67	46	-		
Sechelt/ Sechelt Indian Gov. Dist.	DM/ IGD	M		30	47		-		
		F		36	50		-		
		T	9,137	66	97	46	-		

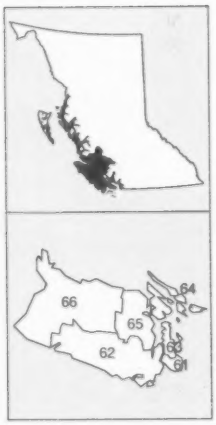
APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
LHA 047 Powell River		M	10,260	87	98		2	40.3	77.8
		F	10,046	76	91		1	41.9	81.5
		T	20,306	163	189	101	3	41.1	79.7
Powell River	DM	M		58	72		1		
		F		63	66		1		
		T	13,581	121	138	77	2		
LHA 048 Howe Sound		M	16,196	176	68		1	33.4	77.0
		F	14,378	197	40		2	33.4	81.5
		T	30,574	373	108	390	3	33.4	79.1
Pemberton	VL	M		24	1		-		
		F		31	5		1		
		T	1,891	55	6	20	1		
Squamish	DM	M		91	51		1		
		F		89	28		1		
		T	14,927	180	79	79	2		
Whistler	DM	M		35	5		-		
		F		45	4		-		
		T	9,739	80	9	277	-		
LHA 049 Bella Coola Valley		M	1,857	27	12		-	33.5	72.2
		F	1,652	26	12		1	34.3	85.0
		T	3,509	53	24	21	1	33.9	77.0
LHA 083 Central Coast		M	924	10	17		-	32.7	69.9
		F	814	11	4		-	32.5	73.7
		T	1,738	21	21	7	-	32.6	71.4
TOTAL		**M**	**132,199**	**1,145**	**909**		**9**	**38.2**	**79.2**
		F	**136,678**	**1,209**	**922**		**8**	**40.2**	**83.1**
		T	**268,877**	**2,354**	**1,831**	**1,451**	**18**	**39.2**	**81.2**
HA 03 VANCOUVER COASTAL TOTAL		**M**	**510,181**	**4,974**	**3,269**		**42**	**37.3**	**78.0**
		F	**524,920**	**4,641**	**3,283**		**30**	**39.2**	**83.4**
		T	**1,035,101**	**9,615**	**6,552**	**6,046**	**77**	**38.3**	**80.8**

HSDA 41 SOUTH VANCOUVER ISLAND



LHA 061 Greater Victoria		M	99,233	813	1,020		7	39.7	77.6
		F	110,036	827	1,228		5	43.3	82.2
		T	209,269	1,640	2,248	1,268	12	41.6	80.1
Esquimalt	DM	M		92	66		-		
		F		75	76		1		
		T	16,903	167	142	142	1		
Oak Bay	DM	M		49	93		1		
		F		50	103		1		
		T	18,360	99	196	91	2		
Saanich	DM	M		418	462		3		
		F		423	395		2		
		T	108,084	841	857	344	5		
Victoria	C	M		276	484		1		
		F		308	706		1		
		T	77,941	584	1,190	743	2		
View Royal	T	M		41	21		1		
		F		31	17		-		
		T	7,914	72	38	37	1		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

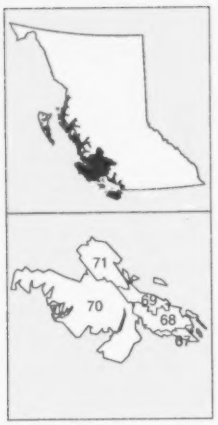
BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
LHA 062 Sooke		M	27,745	319	166		2	35.8	78.0
		F	27,572	251	146		1	37.0	81.7
		T	55,317	570	312	375	3	36.4	79.8
Colwood	C	M		90	42		2		
		F		64	47		-		
		T	14,534	154	89	112	2		
Highlands	DM	M		9	4		1		
		F		8	2		-		
		T	1,767	17	6	7	1		
Langford	DM	M		134	73		-		
		F		113	43		-		
		T	20,117	247	116	67	-		
Metchosin	DM	M		14	8		-		
		F		17	8		-		
		T	5,134	31	16	31	-		
Sooke	DM	M		70	36		-		
		F		47	44		1		
		T	9,255	117	80	145	1		
LHA 063 Saanich		M	29,782	215	307		1	43.4	80.4
		F	31,699	199	279		1	45.3	83.5
		T	61,481	414	586	316	2	44.4	82.0
Central Saanich	DM	M		61	60		-		
		F		63	71		-		
		T	15,995	124	131	76	-		
North Saanich	DM	M		30	38		-		
		F		15	29		-		
		T	10,824	45	67	62	-		
Sidney	T	M		33	78		1		
		F		37	94		1		
		T	11,281	70	172	80	2		
LHA 064 Gulf Islands		M	6,965	40	60		-	45.7	79.3
		F	7,553	52	51		-	47.0	83.9
		T	14,518	92	111	182	-	46.4	81.6
LHA 065 Cowichan		M	25,918	214	214		1	39.0	77.4
		F	26,684	249	198		1	40.2	82.5
		T	52,602	463	412	325	2	39.6	80.0
Duncan	C	M		32	39		-		
		F		22	51		1		
		T	4,810	54	90	53	1		
North Cowichan	DM	M		119	122		1		
		F		129	123		-		
		T	27,457	248	245	134	1		
LHA 066 Lake Cowichan		M	3,198	18	23		-	38.4	78.0
		F	3,046	14	23		-	39.1	84.3
		T	6,244	32	46	15	-	38.7	80.7
Lake Cowichan	T	M		16	17		-		
		F		10	17		-		
		T	2,976	26	34	8	-		
TOTAL		**M**	**192,841**	**1,619**	**1,790**		**11**	**39.8**	**78.2**
		F	**206,590**	**1,592**	**1,925**		**8**	**42.4**	**82.5**
		T	**399,431**	**3,211**	**3,715**	**2,481**	**19**	**41.2**	**80.5**

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002



Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 42 CENTRAL VANCOUVER ISLAND									
LHA 067 Ladysmith		M	8,143	78	90		1	41.4	76.7
		F	8,336	61	83		-	42.9	80.7
		T	16,479	139	173	109	1	42.2	78.7
Ladysmith	T	M		38	36		1		
		F		28	33		-		
		T	7,073	66	69	45	1		
LHA 068 Nanaimo		M	45,913	411	394		4	39.2	77.4
		F	47,976	365	394		1	40.9	82.3
		T	93,889	776	788	430	5	40.1	79.9
Nanaimo	C	M		343	343		3		
		F		305	358		-		
		T	76,787	648	701	347	3		
LHA 069 Qualicum		M	19,600	115	225		-	45.7	78.5
		F	20,515	84	208		-	47.4	83.0
		T	40,115	199	433	282	-	46.6	80.7
Parksville	C	M		26	72		-		
		F		25	82		-		
		T	10,763	51	154	116	-		
Qualicum Beach	T	M		15	51		-		
		F		10	49		-		
		T	7,151	25	100	52	-		
LHA 070 Alberni		M	16,147	158	130		-	38.4	76.1
		F	15,515	139	116		-	39.3	80.0
		T	31,662	297	246	350	-	38.9	77.9
Port Alberni	C	M		89	87		-		
		F		83	82		-		
		T	18,465	172	169	86	-		
Tofino	DM	M		17	1		-		
		F		13	4		-		
		T	1,549	30	5	161	-		
Ucluelet	DM	M		16	7		-		
		F		10	8		-		
		T	1,646	26	15	55	-		
LHA 071 Courtenay		M	28,693	237	239		1	39.5	76.9
		F	29,559	217	224		-	40.8	82.3
		T	58,252	454	463	305	1	40.2	79.6
Comox	T	M		33	61		-		
		F		30	67		-		
		T	11,809	63	128	67	-		
Courtenay	C	M		100	77		1		
		F		94	72		-		
		T	19,435	194	149	92	1		
Cumberland	VL	M		20	20		-		
		F		15	17		-		
		T	2,718	35	37	8	-		
TOTAL		**M**	**118,496**	**999**	**1,078**		**6**	**40.4**	**77.3**
		F	**121,901**	**866**	**1,025**		**1**	**41.9**	**82.0**
		T	**240,397**	**1,865**	**2,103**	**1,476**	**7**	**41.2**	**79.6**

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

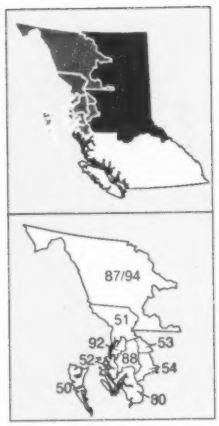
BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 43 NORTH VANCOUVER ISLAND									
LHA 072 Campbell River		M	20,109	178	152		3	37.2	76.5
		F	19,626	191	105		1	37.9	82.1
		T	39,735	369	257	189	4	37.5	79.2
Campbell River	DM	M		150	121		3		
		F		155	91		1		
		T	29,718	305	212	134	4		
Sayward	VL	M		3	2		-		
		F		1	1		-		
		T	405	4	3	8	-		
LHA 084 Vancouver Island West		M	1,314	18	7		-	34.9	72.4
		F	1,149	15	3		-	34.8	77.0
		T	2,463	33	10	5	-	34.8	75.0
Gold River	VL	M		11	3		-		
		F		7	1		-		
		T	1,391	18	4	2	-		
Tahsis	VL	M		-	4		-		
		F		5	1		-		
		T	597	5	5	2	-		
Zeballos	VL	M		4	-		-		
		F		1	-		-		
		T	230	5	-	1	-		
LHA 085 Vancouver Island North		M	7,325	87	32		-	34.5	74.3
		F	6,591	71	32		1	33.5	78.7
		T	13,916	158	64	47	1	34.0	76.3
Alert Bay	VL	M		15	4		-		
		F		9	9		-		
		T	638	24	13	4	-		
Port Alice	VL	M		4	5		-		
		F		2	1		-		
		T	1,199	6	6	1	-		
Port Hardy	DM	M		37	7		-		
		F		34	9		-		
		T	4,804	71	16	23	-		
Port McNeill	T	M		20	6		-		
		F		16	4		-		
		T	2,904	36	10	13	-		
TOTAL		**M**	**28,748**	**283**	**191**		**3**	**36.4**	**76.0**
		F	**27,366**	**277**	**140**		**2**	**36.7**	**81.4**
		T	**56,114**	**560**	**331**	**241**	**5**	**36.5**	**78.6**
HA 04 VANCOUVER ISLAND TOTAL		**M**	**340,085**	**2,901**	**3,059**		**20**	**39.7**	**77.7**
		F	**355,857**	**2,735**	**3,090**		**11**	**41.8**	**82.3**
		T	**695,942**	**5,636**	**6,149**	**4,198**	**31**	**40.8**	**80.0**

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002



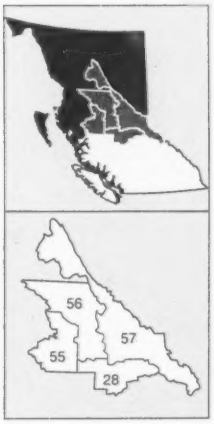
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HSDA 51 NORTHWEST									
LHA 050 Queen Charlotte		M	2,796	36	18		-	35.3	77.4
		F	2,470	26	10		-	35.1	80.3
		T	5,266	62	28	16	-	35.2	76.9
Masset	VL	M		11	8		-		
		F		7	3		-		
		T	1,006	18	11	7	-		
Port Clements	VL	M		3	-		-		
		F		2	-		-		
		T	536	5	-	-	-		
LHA 051 Snow Country		M	418	5	5		-	35.1	73.0
		F	359	6	2		-	34.6	74.9
		T	777	11	7	4	-	34.9	74.6
Stewart	DM	M		5	5		-		
		F		6	2		-		
		T	693	11	7	4	-		
LHA 052 Prince Rupert		M	8,733	112	67		1	34.0	73.7
		F	8,271	106	56		3	34.1	82.1
		T	17,004	218	123	48	4	34.0	77.6
Port Edward	DM	M		2	7		-		
		F		4	1		-		
		T	686	6	8	5	-		
Prince Rupert	C	M		105	52		1		
		F		98	51		3		
		T	15,420	203	103	40	4		
LHA 053 Upper Skeena		M	2,979	37	14		-	32.4	74.7
		F	2,700	36	7		-	32.0	78.4
		T	5,679	73	21	15	-	32.2	76.5
Hazelton	VL	M		21	7		-		
		F		18	4		-		
		T	361	39	11	9	-		
New Hazelton	DM	M		9	3		-		
		F		7	2		-		
		T	801	16	5	1	-		
LHA 054 Smithers		M	9,266	100	44		1	33.1	76.3
		F	8,674	120	24		-	33.3	81.1
		T	17,940	220	68	78	1	33.2	78.5
Houston	DM	M		25	10		-		
		F		28	4		-		
		T	3,738	53	14	18	-		
Smithers	T	M		54	30		1		
		F		78	19		-		
		T	5,710	132	49	51	1		
Telkwa	VL	M		21	4		-		
		F		14	1		-		
		T	1,444	35	5	9	-		
LHA 080 Kitimat		M	6,213	67	24		-	35.0	76.4
		F	5,669	59	22		1	34.9	80.6
		T	11,882	126	46	32	1	35.0	78.4
Kitimat	DM	M		63	22		-		
		F		49	19		1		
		T	10,851	112	41	30	1		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
LHA 087 Stikine		M	692	5	1		-	35.4	77.6
		F	646	1	2		-	35.5	77.3
		T	1,338	6	3	7	-	35.4	80.6
LHA 088 Terrace		M	11,348	125	86		1	33.9	75.6
		F	10,698	136	43		1	33.1	80.5
		T	22,046	261	129	91	3	33.5	77.9
Terrace	C	M		71	54		-		
		F		83	29		1		
		T	12,568	154	83	62	1		
LHA 092 Nisga'a		M	1,032	14	10		-	31.6	73.4
		F	864	18	4		-	30.6	71.9
		T	1,896	32	14	2	-	31.1	72.9
LHA 094 Telegraph Creek		M	355	4	4		-	32.5	68.5
		F	299	3	1		-	30.9	70.5
		T	654	7	5	1	-	31.7	75.4
TOTAL		**M**	**43,832**	**505**	**273**		**3**	**33.9**	**75.2**
		F	**40,650**	**511**	**171**		**5**	**33.6**	**80.8**
		T	**84,482**	**1,016**	**444**	**294**	**9**	**33.8**	**77.8**
HSDA 52 NORTHERN INTERIOR									
LHA 028 Quesnel		M	13,081	114	95		-	36.3	76.3
		F	12,611	102	69		1	36.5	80.5
		T	25,692	216	164	96	1	36.4	78.3
Quesnel	C	M		46	45		-		
		F		48	48		-		
		T	10,591	94	93	49	-		
Wells	DM	M		1	-		-		
		F		-	-		-		
		T	259	1	-	2	-		
LHA 055 Burns Lake		M	4,084	45	31		2	35.0	75.5
		F	3,758	33	14		1	35.3	80.6
		T	7,842	78	45	45	3	35.1	77.9
Burns Lake	VL	M		42	24		2		
		F		29	13		1		
		T	2,063	71	37	37	3		
Granisle	VL	M		1	3		-		
		F		2	-		-		
		T	371	3	3	1	-		
LHA 056 Nechako		M	9,154	128	60		3	33.5	73.9
		F	8,452	112	40		1	33.3	80.8
		T	17,606	240	100	81	4	33.4	77.0
Fort St. James	DM	M		39	18		2		
		F		33	11		1		
		T	2,038	72	29	17	3		
Fraser Lake	VL	M		19	6		1		
		F		17	9		-		
		T	1,364	36	15	10	1		
Vanderhoof	DM	M		64	30		-		
		F		55	19		-		
		T	4,603	119	49	50	-		
LHA 057 Prince George		M	51,184	547	268		6	34.2	75.7
		F	48,945	492	227		5	34.5	80.6
		T	100,129	1,039	495	479	11	34.3	78.0

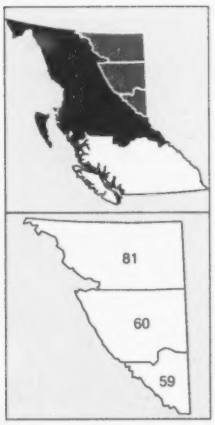


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
Mackenzie	DM	M		33	10		-		
		F		22	3		-		
		T	5,538	55	13	18	-		
McBride	VL	M		7	7		-		
		F		7	1		-		
		T	736	14	8	7	-		
Prince George	C	M		442	212		5		
		F		399	195		5		
		T	76,008	841	407	394	10		
Valemount	VL	M		-	7		-		
		F		3	6		-		
		T	1,271	3	13	12	-		
TOTAL		**M**	**77,503**	**834**	**454**		**11**	**34.5**	**75.6**
		F	**73,766**	**739**	**350**		**8**	**34.8**	**80.6**
		T	**151,269**	**1,573**	**804**	**701**	**19**	**34.6**	**78.0**
HSDA 53 NORTHEAST									
LHA 059 Peace River South		M	14,073	165	97		2	34.6	75.3
		F	13,509	128	67		-	34.9	81.5
		T	27,582	293	164	126	2	34.7	78.2
Chetwynd	DM	M		30	14		1		
		F		22	6		-		
		T	2,795	52	20	19	1		
Dawson Creek	C	M		103	45		1		
		F		78	33		-		
		T	11,409	181	78	78	1		
Pouce Coupe	VL	M		6	19		-		
		F		6	19		-		
		T	865	12	38	8	-		
Tumbler Ridge	DM	M		10	5		-		
		F		10	4		-		
		T	2,243	20	9	6	-		
LHA 060 Peace River North		M	16,224	233	63		1	31.9	77.2
		F	14,972	226	47		2	31.8	84.1
		T	31,196	459	110	168	3	31.9	80.2
Fort St. John	C	M		145	47		1		
		F		132	34		1		
		T	17,117	277	81	112	2		
Hudson's Hope	DM	M		5	1		-		
		F		4	1		-		
		T	1,135	9	2	2	-		
Taylor	DM	M		11	4		-		
		F		12	2		-		
		T	1,252	23	6	16	-		
LHA 081 Fort Nelson		M	3,369	53	14		-	30.0	76.2
		F	2,869	45	3		-	29.5	80.0
		T	6,238	98	17	34	-	29.8	77.7
Fort Nelson	T	M		51	12		-		
		F		44	3		-		
		T	4,503	95	15	33	-		
TOTAL		**M**	**33,666**	**451**	**174**		**3**	**32.8**	**76.3**
		F	**31,350**	**399**	**117**		**2**	**32.9**	**82.1**
		T	**65,016**	**850**	**291**	**328**	**5**	**32.9**	**79.0**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

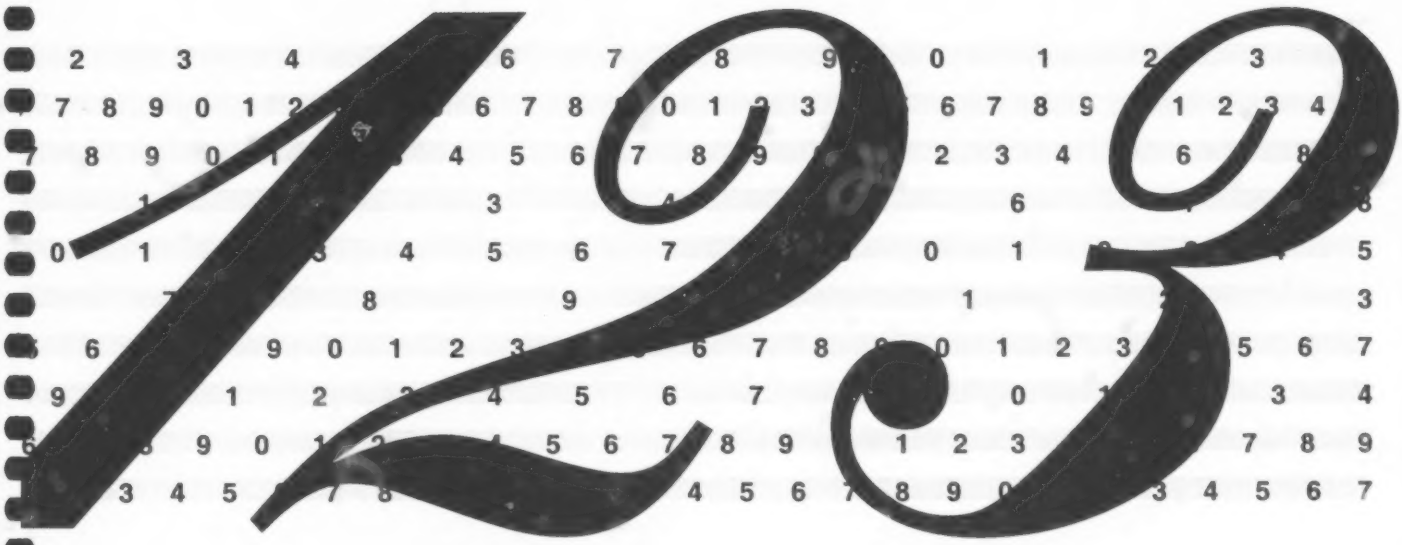
BRITISH COLUMBIA, 2002

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1998-2002)
HA 05 NORTHERN TOTAL		**M**	**155,001**	**1,790**	**901**		**17**	**33.9**	**75.6**
		F	**145,766**	**1,649**	**638**		**15**	**34.1**	**81.0**
		T	**300,767**	**3,439**	**1,539**	**1,323**	**33**	**34.0**	**78.1**
HA 06 PROVINCIAL HEALTH SERVICE AUTHORITY (PROVINCIAL TOTAL)		**M**	**2,053,091**	**20,592**	**14,612**		**149**	**37.3**	**77.7**
		F	**2,088,181**	**19,301**	**14,074**		**133**	**39.1**	**82.7**
		T	**4,141,272**	**39,893**	**28,686**	**21,245**	**296**	**38.2**	**80.2**

Note: Live births, stillbirths and deaths are assigned to communities based on the postal code of usual residence.
Marriages are assigned according to the place where the marriage ceremony was performed, and include non-residents.
Totals for gender include cases with unknown gender.
Population estimates and life expectancy (1998–2002) were obtained from BCSTATS, Ministry of Management Services.
† C=City, T=Town, VL=Village, DM=District Municipality, IGD=Indian Government District, IM=Island Municipality.
The boundaries of some communities include areas in more than one LHA.
HSDA 32 Vancouver Total may include unspecified Vancouver addresses.

Appendix 2

Detailed Cause of Death by Gender and Age



Preamble to Appendix 2

Appendix 2 provides detailed causes of death by gender and age group for deaths that occurred in British Columbia to provincial residents in the year 2002. Causes of death are coded according to the World Health Organization's International Classification of Diseases, tenth revision (ICD-10). ICD-10 defines the underlying cause of death as "(a) the disease or injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury." ICD-10 codes consist of a letter followed by numbers, and sometimes include a fourth character to provide more specificity. In this appendix, the ICD-10 codes have been summed to the letter plus two-digit level and are presented only where there were at least five deaths from the specified cause.

The list below provides a summary of ICD-10, including subgroups used in this report:

Cause of Death Category	**ICD-10 Code(s)**
Infectious/parasitic diseases	A00–B99
HIV disease	B20–B24
Neoplasms	C00–D48
Cancer (malignant neoplasms)	C00–C97
Colorectal	C18–C21
Lung	C33–C34
Female breast	C50.0–C50.9
Diseases of blood and blood-forming organs, certain immune disorders	D50–D89
Endocrine/nutritional/metabolic diseases	E00–E89
Diabetes	E10–E14
Mental and behavioural disorders	F00–F99
Vascular/senile dementia	F01, F03
Mental disorder due to psychoactive substance use/abuse	F10–F19
Nervous system diseases	G00–G99
Alzheimer's disease	G30
Diseases of the eyes and ears	H00–H95
Circulatory system diseases	I00–I99
Cardiovascular disease	I01–I51
Ischemic heart disease	I20–I25
Cerebrovascular disease	I60–I69
Respiratory system diseases	J00–J99
Pneumonia/influenza	J10–J18.1, J18.8–J18.9
Chronic lung disease	J41–J44
Digestive system diseases	K00–K93
Chronic liver disease/cirrhosis	K70, K73–K74, K76.0–K76.1
Liver diseases	K70–K77
Skin and subcutaneous tissue diseases	L00–L99

Musculoskeletal system and connective tissue diseases	M00–M99
Genitourinary system diseases	N00–N99
Pregnancy, childbirth and puerperial complications	O00–O99
Perinatal conditions	P00–P96
Congenital anomalies	Q00–Q99
Symptoms, signs and ill-defined conditions, unknown causes	R00–R99
Sudden infant death syndrome (SIDS)	R95
Cause of death unknown or pending	R96–R99
External causes	V01–Y98
Motor vehicle accidents	V02–V04, V09, V12–V14, V19.0–V19.6, V20–V79, V80.3–V80.5, V82.0–V82.1, V82.3–V89.0, V89.2, V89.9, Y85.0
Other transport accidents	V01, V05–V06, V10–V11, V15–V18, V19.8–V19.9, V80.0–V80.2, V80.6–V81.9, V82.2, V89.1, V89.3, V90-V99, Y85.9
Accidental falls	W00–W19
Drowning/submersion	W65–W74
Accident caused by fire	X00–X09
Accidental poisoning	X40–X49
Suicide	X60–X84, Y87.0
Homicide	X85–Y09, Y87.1

APPENDIX 2
DETAILED CAUSE OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
A04	Other bacterial intestinal infections	M	-	-	-	-	-	-	-	2	2	2	6
		F	-	-	-	-	-	-	-	1	-	6	7
A08	Viral and other specified intestinal infections	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	6	6
A16	Respiratory tuberculosis	M	-	-	-	-	-	-	-	2	1	2	5
		F	-	-	-	-	-	-	-	-	1	-	1
A41	Other septicemia	M	-	-	-	-	-	-	2	12	28	32	74
		F	-	-	-	-	-	-	-	11	26	37	74
A49	Bacterial infection of unspecified site	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	2	3	1	6
A81	Atypical virus infections of central nervous system	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	2	1	2	5
B18	Chronic viral hepatitis	M	-	-	-	-	-	-	7	36	10	3	56
		F	-	-	-	-	-	-	5	17	7	5	34
B20	HIV resulting in infectious and parasitic diseases	M	-	-	-	-	-	-	23	14	-	-	37
		F	-	-	-	-	-	-	12	4	-	-	16
B21	HIV resulting in malignant neoplasms	M	-	-	-	-	-	-	1	5	-	-	6
		F	-	-	-	-	-	-	1	-	-	-	1
B22	HIV resulting in other specified diseases	M	-	-	-	-	-	-	8	7	-	-	15
		F	-	-	-	-	-	-	1	1	-	-	2
B23	HIV disease resulting in other conditions	M	-	-	-	-	-	-	7	8	2	-	17
		F	-	-	-	-	-	-	2	1	-	-	3
B24	Unspecified HIV disease	M	-	-	-	-	-	-	4	1	1	-	6
		F	-	-	-	-	-	-	-	1	-	-	1
B34	Viral infection of unspecified site	M	-	1	-	-	-	-	-	-	1	1	3
		F	-	-	-	-	-	-	-	-	-	6	6
B94	Sequelae of other and unspecified infectious and parasitic diseases	M	-	-	-	-	-	-	-	1	-	1	2
		F	-	-	-	-	-	-	-	1	1	2	4
C02	Malignant neoplasm of other and unspecified parts of tongue	M	-	-	-	-	-	-	1	7	7	2	17
		F	-	-	-	-	-	-	-	5	3	2	10
C04	Malignant neoplasm of floor of mouth	M	-	-	-	-	-	-	-	1	-	2	3
		F	-	-	-	-	-	-	-	1	1	-	2
C06	Malignant neoplasm of other and unspecified parts of mouth	M	-	-	-	-	-	-	-	5	3	3	11
		F	-	-	-	-	-	-	1	3	1	5	10
C07	Malignant neoplasm of parotid gland	M	-	-	-	-	-	-	-	-	5	-	5
		F	-	-	-	-	-	-	-	-	-	2	2
C09	Malignant neoplasm of tonsil	M	-	-	-	-	-	-	1	7	3	-	11
		F	-	-	-	-	-	-	-	1	1	-	2
C10	Malignant neoplasm of oropharynx	M	-	-	-	-	-	-	-	3	3	1	7
		F	-	-	-	-	-	-	-	1	1	1	3
C11	Malignant neoplasm of nasopharynx	M	-	-	-	-	-	-	2	11	2	-	15
		F	-	-	-	-	-	-	1	1	2	1	5
C14	Malignant neoplasm of other & ill-defined sites in the lip, oral cavity and pharynx	M	-	-	-	-	-	-	-	10	7	2	19
		F	-	-	-	-	-	-	-	1	6	4	11
C15	Malignant neoplasm of esophagus	M	-	-	-	-	-	-	3	34	96	29	162
		F	-	-	-	-	-	-	1	9	30	26	66
C16	Malignant neoplasm of stomach	M	-	-	-	-	-	-	4	30	74	29	137
		F	-	-	-	-	-	-	4	17	42	45	108
C17	Malignant neoplasm of small intestine	M	-	-	-	-	-	-	-	1	5	4	10
		F	-	-	-	-	-	-	-	1	-	2	3
C18	Malignant neoplasm of colon	M	-	-	-	-	-	-	3	75	148	88	314
		F	-	-	-	-	1	-	7	52	119	123	302
C19	Malignant neoplasm of rectosigmoid junction	M	-	-	-	-	-	-	-	4	6	5	15
		F	-	-	-	-	-	-	1	3	1	6	11
C20	Malignant neoplasm of rectum	M	-	-	-	-	-	-	1	17	32	27	77
		F	-	-	-	-	-	-	1	9	19	17	46
C21	Malignant neoplasm of anus and anal canal	M	-	-	-	-	-	-	-	1	1	1	3
		F	-	-	-	-	-	-	-	2	2	3	7
C22	Malignant neoplasm of liver and intrahepatic bile ducts	M	-	-	-	-	-	-	5	37	58	16	116
		F	-	-	-	-	-	-	2	14	28	29	73
C23	Malignant neoplasm of gallbladder	M	-	-	-	-	-	-	-	6	4	5	15
		F	-	-	-	-	-	-	1	5	10	10	26

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
C24	Malignant neoplasm of other and unspecified parts of biliary tract	M	-	-	-	-	-	-	-	4	5	5	14
		F	-	-	-	-	-	-	-	3	8	7	18
C25	Malignant neoplasm of pancreas	M	-	-	-	-	-	-	3	50	86	60	199
		F	-	-	-	-	-	-	4	53	88	98	243
C26	Malignant neoplasm of other and ill-defined digestive organs	M	-	-	-	-	-	-	-	18	46	36	100
		F	-	-	-	-	-	-	3	15	25	51	94
C32	Malignant neoplasm of larynx	M	-	-	-	-	-	-	1	10	19	7	37
		F	-	-	-	-	-	-	-	1	1	2	4
C34	Malignant neoplasm of bronchus and lung	M	-	-	-	-	-	-	7	282	580	238	1107
		F	-	-	-	-	-	-	14	239	441	212	906
C38	Malignant neoplasm of heart, mediastinum and pleura	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	-	2	2	4
C41	Malignant neoplasm of bone & articular cartilage of other & unspecified sites	M	-	1	-	-	-	-	3	3	3	1	11
		F	-	-	-	1	-	-	-	-	2	1	4
C43	Malignant melanoma of skin	M	-	-	-	-	-	1	7	16	15	13	52
		F	-	-	-	-	-	1	4	19	11	9	44
C44	Other malignant neoplasms of skin	M	-	-	-	-	-	-	-	1	5	12	18
		F	-	-	-	-	-	-	1	1	4	9	15
C45	Mesothelioma	M	-	-	-	-	-	-	1	10	25	8	44
		F	-	-	-	-	-	-	-	5	5	2	12
C48	Malignant neoplasm of peritoneum & retro-peritoneum	M	-	-	-	-	-	-	-	-	1	-	1
		F	-	-	-	-	-	-	-	1	5	1	7
C49	Malignant neoplasm of other connective and soft tissue	M	-	-	-	-	-	-	3	3	5	4	15
		F	-	-	-	-	1	-	1	11	7	5	25
C50	Malignant neoplasm of breast	M	-	-	-	-	-	-	-	1	3	-	4
		F	-	-	-	-	-	-	31	202	203	164	600
C51	Malignant neoplasm of vulva	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	2	1	6	9
C53	Malignant neoplasm of cervix uteri	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	6	19	8	10	43
C54	Malignant neoplasm of corpus uteri	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	6	15	11	32
C55	Malignant neoplasm of uterus, part unspecified	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	7	14	13	34
C56	Malignant neoplasm of ovary	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	6	61	105	60	232
C60	Malignant neoplasm of penis	M	-	-	-	-	-	-	-	-	4	1	5
		F	-	-	-	-	-	-	-	-	-	-	-
C61	Malignant neoplasm of prostate	M	-	-	-	-	-	-	1	43	206	246	496
		F	-	-	-	-	-	-	-	-	-	-	-
C62	Malignant neoplasm of testis	M	-	-	-	-	-	-	-	4	1	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
C64	Malignant neoplasm of kidney, except renal pelvis	M	-	-	-	-	-	-	6	35	49	13	103
		F	-	-	-	-	-	-	1	15	30	20	66
C66	Malignant neoplasm of ureter	M	-	-	-	-	-	-	-	1	1	4	6
		F	-	-	-	-	-	-	-	-	1	-	1
C67	Malignant neoplasm of bladder	M	-	-	-	-	-	-	1	19	65	58	143
		F	-	-	-	-	-	-	-	5	24	25	54
C71	Malignant neoplasm of brain	M	-	1	-	2	-	2	16	41	45	10	117
		F	-	-	2	1	1	1	2	27	26	14	74
C73	Malignant neoplasm of thyroid gland	M	-	-	-	-	-	-	1	-	5	1	7
		F	-	-	-	-	-	-	-	4	6	4	14
C74	Malignant neoplasm of adrenal gland	M	-	1	1	-	1	-	1	-	-	-	4
		F	-	2	-	1	-	-	1	-	1	1	6
C75	Malignant neoplasm of other endocrine glands and related structures	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	2	1	-	3
C76	Malignant neoplasm of other and ill-defined sites	M	-	-	-	-	1	1	1	4	9	2	18
		F	-	-	-	-	-	-	-	1	7	13	21
C80	Malignant neoplasm - primary site unknown	M	-	-	-	-	-	-	9	41	87	65	202
		F	-	-	-	-	-	2	8	44	92	97	243
C81	Hodgkin's disease	M	-	-	-	-	-	-	1	1	1	1	4
		F	-	-	-	-	-	1	1	1	-	-	3

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
C83	Diffuse non-Hodgkin's lymphoma	M	-	-	-	-	-	-	2	11	13	5	31
		F	-	-	-	-	-	-	3	4	6	10	23
C84	Peripheral and cutaneous T-cell lymphomas	M	-	-	-	-	-	-	-	1	4	3	8
		F	-	-	-	-	-	-	-	2	-	2	4
C85	Other and unspecified types of non-Hodgkin's lymphoma	M	-	-	-	-	-	-	5	35	74	33	147
		F	-	-	-	-	-	-	2	30	41	33	106
C88	Malignant immunoproliferative diseases	M	-	-	-	-	-	-	-	1	4	1	6
		F	-	-	-	-	-	-	-	-	2	-	2
C90	Multiple myeloma and malignant plasma cell neoplasms	M	-	-	-	-	-	-	-	22	40	22	84
		F	-	-	-	-	-	-	-	7	39	24	70
C91	Lymphoid leukemia	M	-	-	1	1	2	-	-	8	24	13	49
		F	-	-	-	-	-	-	-	6	10	17	33
C92	Myeloid leukemia	M	-	2	-	-	-	1	6	12	34	11	66
		F	-	-	-	1	2	-	6	7	15	13	44
C95	Leukemia of unspecified cell type	M	-	-	-	-	-	-	2	5	21	16	44
		F	-	-	-	-	-	1	1	3	12	15	32
D32	Benign neoplasm of meninges	M	-	-	-	-	-	-	-	-	2	3	5
		F	-	-	-	-	-	-	-	5	-	4	9
D37	Neoplasm of uncert./unk. behaviour of oral cavity and digestive organs	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	-	1	4	5
D38	Neoplasm of uncert./unk. behaviour of mid. ear, resp. & intrathoracic organs	M	-	-	-	-	-	-	-	-	2	2	4
		F	-	-	-	-	-	-	-	-	-	2	2
D43	Neoplasm of uncer./unk. behaviour of brain & central nervous system	M	-	-	-	-	-	1	4	13	12	5	35
		F	-	-	-	-	-	-	-	2	6	11	19
D46	Myelodysplastic syndromes	M	-	-	-	-	-	-	1	4	14	14	33
		F	-	-	-	-	1	-	-	1	9	16	27
D47	Neoplasm of uncer./unk. behaviour of lymphoid, hematopoietic & rel. tissue	M	-	-	-	-	-	-	-	-	5	11	16
		F	-	-	-	-	-	-	-	-	2	8	10
D48	Neoplasm of uncer./unk. behaviour of other and unspecified sites	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	1	1	11	13
D61	Other aplastic anemias	M	-	-	1	-	-	-	-	-	1	4	6
		F	-	-	-	-	-	-	-	-	2	3	5
D64	Other anemias	M	-	-	-	-	-	-	-	1	2	9	12
		F	-	-	-	-	-	-	-	-	4	12	16
D69	Purpura and other hemorrhagic conditions	M	-	-	-	-	-	-	1	1	2	1	5
		F	-	-	-	1	-	-	-	-	2	2	5
D84	Other immunodeficiencies	M	-	-	-	-	-	-	1	1	1	1	4
		F	-	-	-	-	-	-	-	-	3	-	3
E03	Other hypothyroidism	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	1	2	8	11
E10	Insulin-dependent diabetes mellitus	M	-	-	-	-	-	-	2	5	11	17	35
		F	-	-	-	-	1	-	3	2	10	8	24
E11	Non-insulin-dependent diabetes mellitus	M	-	-	-	-	-	-	1	18	39	28	86
		F	-	-	-	-	-	-	-	2	18	40	60
E14	Diabetes mellitus NOS	M	-	-	-	-	-	1	8	59	158	119	345
		F	-	-	-	-	-	-	3	29	109	186	327
E46	Unspecified protein-energy malnutrition	M	-	-	-	-	-	-	-	-	2	3	5
		F	-	-	-	-	-	-	-	1	1	14	16
E66	Obesity	M	-	-	-	-	-	-	1	7	3	-	11
		F	-	-	-	-	-	-	-	5	4	1	10
E78	Disorders of lipoprotein metabolism and other lipidemias	M	-	-	-	-	-	-	-	8	14	5	27
		F	-	-	-	-	-	-	-	2	10	10	22
E83	Disorders of mineral metabolism	M	-	-	-	-	-	1	1	-	4	-	6
		F	-	-	-	-	-	-	-	-	1	-	1
E84	Cystic fibrosis	M	-	-	-	-	1	-	1	1	-	-	3
		F	-	-	-	-	-	1	2	-	-	-	3
E85	Amyloidosis	M	-	-	-	-	-	-	-	3	2	4	9
		F	-	-	-	-	-	-	-	1	6	-	7
E86	Volume depletion	M	-	-	-	-	-	-	-	-	3	3	6
		F	-	-	-	-	-	-	-	-	2	19	21
E87	Other disorders of fluid, electrolyte and acid-base balance	M	-	-	-	-	-	-	-	-	2	5	7
		F	-	-	-	-	-	-	-	1	4	12	17

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
E88	Other metabolic disorders	M	-	-	-	-	-	-	-	3	3	1	7
		F	-	-	-	-	-	-	-	4	2	2	8
F03	Unspecified dementia	M	-	-	-	-	-	-	-	2	38	107	147
		F	-	-	-	-	-	-	-	2	40	329	371
F05	Delirium, not induced by alcohol and other psychoactive substances	M	-	-	-	-	-	-	1	-	-	5	6
		F	-	-	-	-	-	-	-	-	-	4	4
F06	Other mental dis. due to brain damage and dysfunction and phys. dis.	M	-	-	-	-	-	-	-	-	2	1	3
		F	-	-	-	-	-	-	-	-	-	3	3
F10	Mental and behavioural disorders due to use of alcohol	M	-	-	-	-	-	-	10	41	30	7	88
		F	-	-	-	-	-	-	1	16	13	5	35
F19	Multiple drug misuse and misuse of other psychoactive substances	M	-	-	-	-	-	-	2	6	-	-	8
		F	-	-	-	-	-	-	-	2	-	-	2
F20	Schizophrenia	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	3	1	4
F32	Depressive episode	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	4	3	7
F50	Eating disorders	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	1	-	-	2	3
G04	Encephalitis, myelitis and encephalomyelitis	M	-	-	-	-	-	-	1	1	2	-	4
		F	-	-	-	-	-	1	1	-	-	-	2
G10	Huntington's disease	M	-	-	-	-	-	-	-	3	1	1	5
		F	-	-	-	-	-	-	-	2	-	-	2
G11	Hereditary ataxia	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	1	-	-	1	1	1	4
G12	Spinal muscular atrophy and related syndromes	M	1	1	-	-	-	-	2	12	25	6	47
		F	-	-	-	-	-	-	2	5	27	12	46
G20	Parkinson's disease	M	-	-	-	-	-	-	-	3	49	68	120
		F	-	-	-	-	-	-	-	1	33	55	89
G30	Alzheimer's disease	M	-	-	-	-	-	-	-	2	43	117	162
		F	-	-	-	-	-	-	-	3	64	325	392
G31	Other degenerative diseases of nervous system, NEC	M	1	-	-	-	-	-	1	2	13	6	23
		F	-	-	-	-	-	-	1	2	4	12	19
G35	Multiple sclerosis	M	-	-	-	-	-	-	2	8	10	-	20
		F	-	-	-	-	-	-	2	18	14	8	42
G40	Epilepsy	M	-	-	-	-	-	1	1	2	3	-	7
		F	-	-	-	-	-	-	1	5	1	1	8
G45	Transient cerebral ischemic attacks and related syndromes	M	-	-	-	-	-	-	-	-	-	4	4
		F	-	-	-	-	-	-	-	-	2	9	11
G71	Primary disorders of muscles	M	-	-	-	-	1	1	-	1	3	2	8
		F	1	-	-	-	1	-	1	1	2	-	6
G80	Infantile cerebral palsy	M	-	-	-	-	-	-	2	1	1	-	4
		F	-	-	-	1	-	-	1	1	-	-	3
G81	Hemiplegia	M	-	-	-	-	-	-	-	-	3	3	6
		F	-	-	-	-	-	-	-	-	-	5	5
G82	Paraplegia and tetraplegia	M	-	-	-	-	-	-	2	1	1	-	4
		F	-	-	-	-	-	-	1	-	2	-	3
G90	Disorders of autonomic nervous system	M	-	-	-	-	-	-	-	1	1	1	3
		F	-	-	-	-	-	-	-	1	-	2	3
G91	Hydrocephalus (acquired)	M	-	-	-	-	-	-	-	-	4	2	6
		F	-	-	-	-	-	-	-	-	1	1	2
G93	Other disorders of brain	M	-	-	-	-	-	1	2	5	7	6	21
		F	-	-	-	-	-	-	1	5	4	4	14
I05	Rheumatic mitral valve diseases	M	-	-	-	-	-	-	-	1	7	5	13
		F	-	-	-	-	-	-	1	-	13	5	19
I07	Rheumatic tricuspid valve diseases	M	-	-	-	-	-	-	1	-	2	-	3
		F	-	-	-	-	-	-	-	1	2	-	3
I08	Multiple valve diseases	M	-	-	-	-	-	-	-	-	2	4	6
		F	-	-	-	-	-	-	-	1	3	3	7
I09	Other rheumatic heart diseases	M	-	-	-	-	-	-	-	2	2	1	5
		F	-	-	-	-	-	-	-	1	3	5	9
I10	Essential (primary) hypertension	M	-	-	-	-	-	-	-	5	21	24	50
		F	-	-	-	-	-	-	-	4	13	53	70

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
I11	Hypertensive heart disease	M	-	-	-	-	-	-	1	10	14	18	43
		F	-	-	-	-	-	-	-	3	13	39	55
I12	Hypertensive renal disease	M	-	-	-	-	-	-	1	2	7	10	20
		F	-	-	-	-	-	-	-	1	12	25	38
I13	Hypertensive heart and renal disease	M	-	-	-	-	-	-	-	-	-	6	6
		F	-	-	-	-	-	-	-	-	6	11	17
I20	Angina pectoris	M	-	-	-	-	-	-	-	1	2	3	6
		F	-	-	-	-	-	-	-	-	5	3	8
I21	Acute MI	M	-	-	-	-	-	-	18	228	535	586	1367
		F	-	-	-	-	-	-	1	49	270	683	1003
I24	Other acute ischemic heart diseases	M	-	-	-	-	-	-	-	2	10	7	19
		F	-	-	-	-	-	-	-	-	4	7	11
I25	Chronic ischemic heart disease	M	-	-	-	-	-	-	17	210	430	627	1284
		F	-	-	-	-	-	-	-	37	225	798	1060
I26	Pulmonary embolism	M	-	-	-	-	-	1	1	6	13	10	31
		F	-	-	-	-	-	-	1	7	17	17	42
I27	Other pulmonary heart diseases	M	-	-	-	-	-	1	1	4	1	9	16
		F	-	-	-	-	-	-	2	1	8	12	23
I33	Acute and subacute endocarditis	M	-	-	-	-	-	-	2	1	3	2	8
		F	-	-	-	-	-	-	1	-	1	1	3
I34	Nonrheumatic mitral valve disorders	M	-	-	-	-	-	-	1	1	9	11	22
		F	-	-	-	-	-	-	-	2	5	10	17
I35	Nonrheumatic aortic valve disorders	M	-	-	-	-	-	-	-	5	19	35	59
		F	-	-	-	-	-	-	-	2	12	46	60
I38	Endocarditis	M	-	-	-	-	-	-	2	4	10	17	33
		F	-	-	-	-	-	-	1	5	11	32	49
I42	Cardiomyopathy	M	-	-	-	1	-	-	7	26	43	18	95
		F	-	-	-	-	-	-	6	11	16	39	72
I46	Cardiac arrest	M	-	-	-	-	-	-	-	10	5	16	31
		F	-	-	-	-	-	-	-	4	4	24	32
I47	Paroxysmal tachycardia	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	-	2	4	6
I48	Atrial fibrillation and flutter	M	-	-	-	-	-	-	-	4	27	58	89
		F	-	-	-	-	-	-	-	1	16	113	130
I49	Other cardiac arrhythmias	M	-	-	1	-	-	-	3	8	20	23	55
		F	-	-	-	-	-	-	1	1	7	38	47
I50	Heart failure	M	-	-	-	-	-	-	-	8	80	185	273
		F	-	-	-	-	-	-	-	10	58	414	482
I51	Complications and ill-defined descriptions of heart disease	M	-	-	-	-	1	-	2	3	16	18	40
		F	-	-	-	-	-	-	1	3	10	24	38
I60	Subarachnoid hemorrhage	M	-	-	-	-	-	-	5	7	14	8	34
		F	-	-	-	-	-	-	8	27	18	10	63
I61	Intracerebral hemorrhage	M	-	-	-	-	-	-	3	27	43	34	107
		F	-	-	-	-	-	1	1	13	31	62	108
I62	Other nontraumatic intracranial hemorrhage	M	-	-	-	-	-	-	2	3	14	19	38
		F	-	-	-	-	-	-	-	4	18	11	33
I63	Cerebral infarction	M	-	-	-	-	-	-	3	3	14	35	55
		F	-	-	-	-	-	-	-	4	16	54	74
I64	CVA, NOS	M	-	-	-	-	-	-	4	29	190	289	512
		F	-	-	-	-	-	-	1	15	142	687	845
I65	Occlusion and stenosis of precerebral arteries, not res. in cerebral infarction	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	1	1	-	2
I67	Other cerebrovascular diseases	M	-	-	-	-	-	-	-	-	17	55	72
		F	-	-	-	-	-	-	-	2	21	68	91
I69	Sequelae of cerebrovascular disease	M	-	-	-	-	-	-	-	4	26	35	65
		F	-	-	-	-	-	-	-	-	16	65	81
I70	Atherosclerosis	M	-	-	-	-	-	-	1	14	31	53	99
		F	-	-	-	-	-	-	-	4	14	74	92
I71	Aortic aneurysm and dissection	M	-	-	-	-	-	-	-	13	72	60	145
		F	-	-	-	-	-	-	-	5	34	48	87
I72	Other aneurysm	M	-	-	-	-	-	-	-	-	3	4	7
		F	-	-	-	-	-	-	1	-	4	3	8

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
I73	Other peripheral vascular diseases	M	-	-	-	-	-	-	-	4	18	16	38
		F	-	-	-	-	-	-	1	1	12	40	54
I74	Arterial embolism and thrombosis	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	2	1	4	7
I77	Other disorders of arteries and arterioles	M	-	-	-	-	-	-	-	1	10	4	15
		F	-	-	-	-	-	-	-	3	4	2	9
I80	Phlebitis and thrombophlebitis	M	-	-	-	-	-	-	-	-	3	5	8
		F	-	-	-	-	-	-	1	4	3	8	16
I81	Portal vein thrombosis	M	-	-	-	-	-	-	-	1	-	2	3
		F	-	-	-	-	-	-	-	1	1	-	2
I85	Oesophageal varices	M	-	-	-	-	-	-	-	3	-	-	3
		F	-	-	-	-	-	-	-	-	1	3	4
I99	Other and unspecified disorders of circulatory system	M	-	-	-	-	-	-	-	-	1	8	9
		F	-	-	-	-	-	-	-	-	1	1	2
J11	Influenza, virus not identified	M	-	-	-	-	-	-	-	-	2	10	12
		F	-	-	-	-	-	-	-	-	2	14	16
J15	Bacterial pneumonia, NEC	M	-	-	-	-	-	-	-	1	4	3	8
		F	-	-	-	-	-	-	-	1	2	2	5
J18	Pneumonia, organism unspecified	M	-	-	-	-	-	-	9	18	129	383	539
		F	-	-	-	-	-	-	4	17	94	525	640
J40	Bronchitis, not specified as acute or chronic	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	-	4	4
J42	Unspecified chronic bronchitis	M	-	-	-	-	-	-	-	-	-	5	5
		F	-	-	-	-	-	-	-	-	1	4	5
J43	Emphysema	M	-	-	-	-	-	-	-	8	25	23	56
		F	-	-	-	-	-	-	-	7	23	32	62
J44	Other chronic obstructive pulmonary disease	M	-	-	-	-	-	-	-	48	236	325	609
		F	-	-	-	-	-	-	-	34	185	296	515
J45	Asthma	M	-	-	-	-	-	-	3	5	5	4	17
		F	-	-	-	-	-	-	1	4	8	16	29
J47	Bronchiectasis	M	-	-	-	-	-	-	-	1	2	7	10
		F	-	-	-	-	-	-	-	3	10	10	23
J61	Pneumoconiosis due to asbestos and other mineral fibres	M	-	-	-	-	-	-	-	-	4	1	5
		F	-	-	-	-	-	-	-	-	-	-	-
J69	Aspiration pneumonia due to solids and liquids	M	-	-	-	-	-	-	1	1	22	45	69
		F	-	-	-	-	-	-	-	3	7	43	53
J80	Adult respiratory distress syndrome	M	-	-	-	-	-	-	1	-	3	1	5
		F	-	-	-	-	-	-	-	-	2	-	2
J81	Pulmonary oedema	M	-	-	-	-	-	-	1	-	-	1	2
		F	-	-	-	-	-	-	-	-	-	3	3
J84	Other interstitial pulmonary diseases	M	-	-	-	-	-	-	1	10	47	43	101
		F	-	-	-	-	-	-	1	11	20	31	63
J86	Pyothorax	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	-	-	2	2
J90	Pleural effusion, NEC	M	-	-	-	-	-	-	-	-	3	3	6
		F	-	-	-	-	-	-	-	2	2	4	8
J96	Respiratory failure, NEC	M	-	-	-	-	-	-	-	-	3	3	6
		F	-	-	-	-	-	-	-	-	-	8	8
J98	Other respiratory disorders	M	-	-	-	-	-	-	1	2	5	10	18
		F	-	-	-	-	-	-	-	1	7	14	22
K20	Oesophagitis	M	-	-	-	-	-	-	-	1	1	2	4
		F	-	-	-	-	-	-	-	1	-	2	3
K21	Gastro-esophageal reflux disease	M	-	-	-	-	-	-	-	-	1	4	5
		F	-	-	-	-	-	-	-	-	1	6	7
K22	Other diseases of esophagus	M	-	-	-	-	-	-	-	-	4	8	12
		F	-	-	-	-	-	-	-	1	1	9	11
K25	Gastric ulcer	M	-	-	-	-	-	-	-	2	1	6	9
		F	-	-	-	-	-	-	-	-	3	5	8
K26	Duodenal ulcer	M	-	-	-	-	-	-	3	2	6	6	17
		F	-	-	-	-	-	-	-	1	3	5	9
K27	Peptic ulcer	M	-	-	-	-	-	-	-	1	4	3	8
		F	-	-	-	-	-	-	-	1	2	9	12

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
K29	Gastritis and duodenitis	M	-	-	-	-	-	-	1	2	2	1	6
		F	-	-	-	-	-	-	-	-	-	2	2
K44	Diaphragmatic hernia	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	2	2	4
K46	Unspecified abdominal hernia	M	-	-	-	-	-	-	-	1	1	4	6
		F	-	-	-	-	-	-	-	1	-	1	2
K50	Crohn's disease	M	-	-	-	-	-	-	-	3	3	1	7
		F	-	-	-	-	-	-	-	-	1	4	5
K52	Other noninfective gastroenteritis and colitis	M	-	-	-	-	-	-	-	1	3	5	9
		F	-	-	-	-	-	-	-	-	3	15	18
K55	Vascular disorders of intestine	M	-	-	-	-	-	-	-	2	18	25	45
		F	-	-	-	-	-	-	-	4	19	38	61
K56	Paralytic ileus and intestinal obstruction without hernia	M	-	-	-	-	-	-	-	3	13	28	44
		F	-	-	-	-	-	1	1	3	6	34	45
K57	Diverticular disease of intestine	M	-	-	-	-	-	-	-	3	5	11	19
		F	-	-	-	-	-	-	-	2	4	26	32
K59	Other functional intestinal disorders	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	1	-	-	3	4
K62	Other diseases of anus and rectum	M	-	-	-	-	-	-	-	1	-	1	2
		F	-	-	-	-	-	-	-	-	-	3	3
K63	Other diseases of intestine	M	-	-	-	-	-	-	1	1	5	3	10
		F	-	-	-	-	-	-	-	2	7	9	18
K65	Peritonitis	M	-	-	-	-	-	-	-	1	2	1	4
		F	-	-	-	-	-	-	1	2	3	6	12
K70	Alcoholic liver disease	M	-	-	-	-	-	-	9	62	36	8	115
		F	-	-	-	-	-	-	7	28	10	3	48
K72	Hepatic failure	M	-	-	-	-	-	-	2	12	14	3	31
		F	-	-	-	-	-	-	2	4	14	7	27
K73	Chronic hepatitis, NOS	M	-	-	-	-	-	-	-	2	-	-	2
		F	-	-	-	-	-	-	1	2	1	1	5
K74	Fibrosis and cirrhosis of liver	M	-	-	-	-	-	-	2	30	21	6	59
		F	-	-	-	-	-	1	1	22	13	12	49
K76	Other diseases of liver	M	-	-	-	-	-	-	-	6	8	-	14
		F	-	-	-	-	-	-	1	1	4	4	10
K80	Cholelithiasis	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	1	8	9
K81	Cholecystitis	M	-	-	-	-	-	-	-	-	2	4	6
		F	-	-	-	-	-	-	-	-	1	1	2
K83	Other diseases of biliary tract	M	-	-	-	-	-	-	-	-	5	2	7
		F	-	-	-	-	-	-	-	-	4	5	9
K85	Acute pancreatitis	M	-	-	-	-	-	-	2	4	10	3	19
		F	-	-	-	-	-	-	1	3	4	4	12
K86	Other diseases of pancreas	M	-	-	-	-	-	-	-	1	2	2	5
		F	-	-	-	-	-	-	1	1	-	-	2
K92	Other diseases of digestive system	M	-	-	-	-	-	-	1	10	18	39	68
		F	-	-	-	-	-	-	-	4	13	73	90
L03	Cellulitis	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	1	9	10
L89	Decubitus ulcer	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	1	10	11
M06	Other rheumatoid arthritis	M	-	-	-	-	-	-	-	-	4	4	8
		F	-	-	-	-	-	-	-	2	9	8	19
M19	Other arthrosis	M	-	-	-	-	-	-	-	-	-	4	4
		F	-	-	-	-	-	-	-	-	1	7	8
M31	Other necrotizing vasculopathies	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	3	5	2	10
M32	Systemic lupus erythematosus	M	-	-	-	-	-	-	2	-	-	-	2
		F	-	-	-	-	-	-	3	4	2	2	11
M34	Systemic sclerosis	M	-	-	-	-	-	-	1	3	3	-	7
		F	-	-	-	-	-	-	-	2	2	2	6
M35	Other systemic involvement of connective tissue	M	-	-	-	-	-	-	-	1	3	1	5
		F	-	-	-	-	-	-	1	-	1	2	4

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
M48	Other spondylopathies	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	3	4	7
M60	Myositis	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	1	2	3
M62	Other disorders of muscle	M	-	-	-	-	-	-	1	-	1	1	3
		F	-	-	-	-	-	-	-	2	1	2	5
M72	Fibroblastic disorders	M	-	-	-	-	-	-	1	-	-	3	4
		F	-	-	-	-	-	-	1	2	-	1	4
M80	Osteoporosis with pathological fracture	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	1	13	14
M81	Osteoporosis without pathological fracture	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	1	16	17
M86	Osteomyelitis	M	-	-	-	-	-	-	-	1	-	2	3
		F	-	-	-	-	-	-	-	-	1	2	3
N05	Unspecified nephritic syndrome	M	-	-	-	-	-	-	-	2	1	1	4
		F	-	-	-	-	-	-	-	-	1	-	1
N12	Tubulo-interstitial nephritis, not specified as acute or chronic	M	-	-	-	-	-	-	-	1	-	2	3
		F	-	-	-	-	-	-	-	-	1	4	5
N13	Obstructive and reflux uropathy	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	2	-	2
N17	Acute renal failure	M	-	-	-	-	-	-	-	2	10	7	19
		F	-	-	-	-	-	-	-	1	4	14	19
N18	Chronic renal failure	M	-	-	-	-	-	-	-	4	16	31	51
		F	-	-	-	-	-	-	1	7	19	36	63
N19	Unspecified renal failure	M	-	-	-	-	-	-	1	12	27	72	112
		F	-	-	-	-	-	-	-	5	24	75	104
N39	Other disorders of urinary system	M	-	-	-	-	-	-	-	2	6	26	34
		F	-	-	-	-	-	-	-	1	10	53	64
N40	Prostatic hypertrophy	M	-	-	-	-	-	-	-	1	3	5	9
		F	-	-	-	-	-	-	-	-	-	-	-
P01	Fetus and newborn affected by maternal comp. of pregnancy	M	7	-	-	-	-	-	-	-	-	-	7
		F	6	-	-	-	-	-	-	-	-	-	6
P02	Fetus & newborn affected by comp. of placenta, cord & membranes	M	6	-	-	-	-	-	-	-	-	-	6
		F	6	-	-	-	-	-	-	-	-	-	6
P03	Fetus and newborn affected by other complications of labour and delivery	M	4	-	-	-	-	-	-	-	-	-	4
		F	2	-	-	-	-	-	-	-	-	-	2
P07	Disorders related to short gestation & low birth weight, NEC	M	8	-	-	-	-	-	-	-	-	-	8
		F	10	-	-	-	-	-	-	-	-	-	10
P52	Intracranial nontraumatic hemorrhage of fetus and newborn	M	4	-	-	-	-	-	-	-	-	-	4
		F	3	-	-	-	-	-	-	-	-	-	3
Q21	Congenital malformations of cardiac septa	M	1	-	-	2	-	-	-	-	-	-	3
		F	-	-	-	-	-	3	2	-	1	1	7
Q23	Congenital malformations of aortic & mitral valves	M	5	-	-	-	-	-	1	1	-	-	7
		F	5	-	-	-	-	-	-	-	-	-	5
Q24	Other congenital malformations of heart	M	3	-	-	-	-	1	2	2	1	-	9
		F	3	-	-	-	3	-	2	2	-	1	11
Q28	Other congenital malformations of circulatory system	M	1	-	-	-	1	-	-	2	1	-	5
		F	-	-	-	-	1	-	1	-	1	-	3
Q61	Cystic kidney disease	M	-	-	-	-	-	-	-	1	1	2	4
		F	-	-	-	-	-	-	-	1	-	2	3
Q87	Other spec. malformation syndromes affecting multiple systems	M	2	-	-	-	-	-	1	-	-	-	3
		F	-	-	-	-	-	-	1	2	1	-	4
Q90	Down's syndrome	M	1	-	-	-	-	-	2	1	-	-	4
		F	-	-	-	-	-	-	1	1	-	-	2
Q91	Edwards' syndrome and Patau's syndrome	M	1	1	-	-	-	-	-	-	-	-	2
		F	4	-	-	-	-	-	-	-	-	-	4
R09	Other symptoms and signs involving the circulatory and respiratory systems	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	-	8	8
R53	Malaise and fatigue	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	-	7	7
R54	Senility	M	-	-	-	-	-	-	-	-	1	11	12
		F	-	-	-	-	-	-	-	-	1	30	31

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
R55	Syncope and collapse	M	-	-	-	-	-	-	1	2	1	-	4
		F	-	-	-	-	-	-	-	1	-	-	1
R56	Convulsions, NOS	M	-	-	-	-	1	-	1	-	1	-	3
		F	1	-	-	-	-	-	3	-	-	-	4
R68	Other general symptoms and signs	M	-	-	-	-	-	-	-	-	-	6	6
		F	-	-	-	-	-	-	-	-	-	8	8
R95	Sudden infant death syndrome	M	8	-	-	-	-	-	-	-	-	-	8
		F	4	-	-	-	-	-	-	-	-	-	4
R99	Other ill-defined and unspecified causes of mortality	M	16	5	5	7	16	24	131	141	41	22	408
		F	3	5	3	5	8	8	58	57	31	21	199
V03	Pedestrian injured in collision with car, pick-up truck or van	M	-	-	-	1	2	1	2	3	3	2	14
		F	-	-	-	-	1	1	-	1	7	2	12
V05	Pedestrian injured in collision with railway train or vehicle	M	-	-	-	-	1	-	-	2	-	1	4
		F	-	-	-	-	-	-	1	-	-	-	1
V09	Pedestrian injured in other and unspecified transport accident	M	-	-	1	-	-	-	1	2	1	2	7
		F	-	-	-	-	-	-	1	1	1	-	3
V23	Motorcycle rider injured in collision with car, pick-up truck or van	M	-	-	-	-	2	1	3	1	-	1	8
		F	-	-	-	-	-	-	1	1	-	-	2
V29	Motorcycle rider injured in other and unspecified transport accidents	M	-	-	-	-	-	1	3	5	-	-	9
		F	-	-	-	-	-	-	-	-	-	-	-
V43	Car occupant injured in collision with car, pick-up truck or van	M	-	-	-	-	2	6	4	3	3	2	20
		F	-	-	-	2	2	2	5	3	2	3	19
V44	Car occupant injured in collision with heavy transport vehicle or bus	M	-	-	-	-	3	-	5	3	4	1	16
		F	-	-	-	1	1	-	3	6	2	1	14
V47	Car occupant injured in collision with fixed or stationary object	M	-	-	-	-	4	8	5	1	2	2	22
		F	-	-	-	1	2	2	3	1	-	-	9
V48	Car occupant injured in noncollision transport	M	-	-	-	-	2	5	9	5	3	1	25
		F	-	-	-	-	1	3	-	2	-	-	6
V49	Car occupant injured in other and unspecified transport accidents	M	-	-	1	-	5	-	1	1	2	-	10
		F	-	-	-	-	-	-	-	2	-	1	3
V53	Occup. of pick-up truck or van injured in collision with car, pick-up truck or van	M	-	-	-	-	-	-	4	3	1	-	8
		F	-	-	-	-	-	1	-	1	1	-	3
V54	Occup. of pick-up truck or van injured in coll. with heavy trans. vehicle or bus	M	-	-	-	-	1	1	4	4	-	-	10
		F	-	-	-	1	-	-	-	1	-	-	2
V57	Occup. of pick-up truck or van injured in collision with fixed or stationary object	M	-	-	-	-	1	1	-	3	1	-	6
		F	-	-	-	-	-	-	-	-	-	-	-
V58	Occup.of pick-up truck or van injured in noncollision transport accident	M	-	-	-	-	3	8	20	6	3	1	41
		F	-	-	1	-	-	-	4	2	1	1	9
V68	Occup. of heavy transport vehicle injured in noncollision transport	M	-	-	-	-	-	-	3	1	-	-	4
		F	-	-	-	-	-	-	1	-	-	-	1
V84	Occup. of spec. vehicle mainly used in agriculture injured in transport accident	M	-	-	-	-	-	-	2	3	1	-	6
		F	-	-	-	-	-	-	-	-	1	-	1
V87	Traffic of specified type but victim's mode of transport unknown	M	-	-	-	1	2	5	5	5	2	2	22
		F	-	-	-	1	1	3	2	2	2	-	11
V89	Motor or nonmotor vehicle, type of vehicle unspecified	M	-	-	1	-	3	-	11	8	2	-	25
		F	-	-	-	-	-	2	1	2	2	2	9
V95	Accident to powered aircraft causing injury to occupant	M	-	-	-	-	-	-	4	1	1	-	6
		F	-	-	-	-	-	-	1	-	-	-	1
W01	Fall on same level from slipping, tripping and stumbling	M	-	-	-	-	-	-	-	2	1	1	4
		F	-	-	-	-	-	-	-	-	2	6	8
W06	Fall involving bed	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	-	1	11	12
W10	Fall on and from stairs and steps	M	-	-	-	-	-	-	-	4	4	4	12
		F	-	-	-	-	-	-	-	4	4	5	13
W11	Fall on and from ladder	M	-	-	-	-	-	-	-	2	1	1	4
		F	-	-	-	-	-	-	-	-	1	-	1
W13	Fall from, out of or through building or structure	M	-	1	-	-	3	2	1	2	1	-	10
		F	-	-	-	-	-	-	-	-	1	2	3
W15	Fall from cliff	M	-	-	-	-	1	1	1	1	-	-	4
		F	-	-	-	-	-	1	-	-	-	-	1
W18	Other fall on same level	M	-	-	-	-	-	-	-	2	2	3	7
		F	-	-	-	-	-	-	-	-	-	12	12

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
W19	Unspecified fall	M	1	-	-	-	1	-	1	7	13	60	83
		F	-	-	-	-	-	-	1	3	9	102	115
W20	Struck by thrown, projected or falling object	M	-	-	-	1	-	-	2	6	-	-	9
		F	-	1	-	-	-	-	-	-	-	-	1
W34	Discharge from other and unspecified firearms	M	-	-	-	-	1	1	-	3	-	-	5
		F	-	-	-	-	-	-	1	-	-	1	2
W69	Drowning and submersion while in natural water	M	-	-	-	-	3	1	3	3	-	-	10
		F	-	-	-	-	-	-	-	1	-	-	1
W70	Drowning and submersion following fall into natural water	M	-	-	-	-	1	-	2	2	-	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
W74	Unspecified drowning and submersion	M	-	-	-	1	1	1	3	5	2	1	14
		F	-	-	-	-	-	-	1	-	-	-	1
W78	Inhalation of gastric contents	M	-	-	-	-	-	-	2	1	1	1	5
		F	-	-	-	-	-	-	-	1	-	-	1
W79	Inhalation and ingestion of food causing obstruction of respiratory tract	M	-	1	-	-	-	-	-	-	-	1	2
		F	-	-	-	-	-	-	-	2	1	-	3
W80	Inhalation & ingestion of other objects causing obstruction of respiratory tract	M	-	-	-	-	-	-	2	2	3	4	11
		F	-	-	-	-	-	-	-	-	2	6	8
X00	Exposure to uncontrolled fire in building or structure	M	-	-	-	-	-	-	3	1	1	1	6
		F	-	-	-	-	1	-	1	-	1	3	6
X31	Exposure to excessive natural cold	M	-	-	-	-	1	1	2	2	2	1	9
		F	-	-	-	-	-	-	-	-	-	-	-
X40	Acc. poisoning by & exp. to nonopioid analgesics, antipyretics and antirheum.	M	-	-	1	-	-	-	-	1	2	-	4
		F	-	-	-	-	-	-	1	1	-	-	2
X41	Acc. pois. by/exp. to antiepil., sed.-hypn antiparkins & psychotropic drugs, NEC	M	-	-	-	-	-	-	1	3	-	-	4
		F	-	-	-	-	-	-	2	2	-	-	4
X42	Acc. poisoning by & exp. to narcotics & psychodysleptics [hallucin.], NEC	M	-	-	-	-	1	3	65	31	-	-	100
		F	-	-	-	-	2	6	13	2	-	-	23
X44	Acc. pois. by/exp. to other and unspec. drugs, medicaments and biolo. sub.	M	-	-	-	-	-	1	9	5	-	-	15
		F	-	-	-	-	1	1	7	6	1	-	16
X45	Accidental poisoning by and exposure to alcohol	M	-	-	-	-	-	-	5	2	-	-	7
		F	-	-	-	-	-	-	2	-	1	-	3
X59	Exposure to unspecified factor	M	-	-	-	-	-	-	-	4	2	2	8
		F	-	-	-	-	-	-	2	-	4	9	15
X61	Suicide by antiepileptic, sed-hypno, antiparkins & psychotropic drugs, NEC	M	-	-	-	-	-	3	7	6	1	-	17
		F	-	-	-	-	-	2	2	7	3	2	16
X62	Suicide by narcotics and psychodysleptics [hallucinogens], NEC	M	-	-	-	-	-	-	3	5	-	-	8
		F	-	-	-	-	-	-	6	3	-	-	9
X64	Suicide by other and unspecified drugs, medicaments & biological substances	M	-	-	-	-	-	-	8	6	1	1	16
		F	-	-	-	-	-	2	-	9	1	1	13
X67	Suicide by other gases and vapours	M	-	-	-	-	-	1	10	6	2	1	20
		F	-	-	-	-	-	1	4	2	-	1	8
X70	Suicide by hanging, strangulation and suffocation	M	-	-	-	2	3	13	53	27	13	3	114
		F	-	-	-	2	3	1	13	3	2	-	24
X71	Suicide by drowning and submersion	M	-	-	-	-	1	-	6	7	2	1	17
		F	-	-	-	-	-	-	1	2	-	-	3
X73	Suicide by rifle, shotgun and larger firearm discharge	M	-	-	-	-	-	2	2	3	6	-	13
		F	-	-	-	-	-	-	-	-	-	-	-
X74	Suicide by other and unspecified firearm discharge	M	-	-	-	-	1	1	10	27	18	-	57
		F	-	-	-	-	-	-	1	-	-	-	1
X78	Suicide by sharp object	M	-	-	-	-	1	-	1	3	1	-	6
		F	-	-	-	-	-	-	2	3	-	1	6
X80	Suicide by jumping from a high place	M	-	-	-	-	1	2	6	4	-	2	15
		F	-	-	-	-	2	-	1	-	1	-	4
X83	Suicide by other specified means	M	-	-	-	-	-	-	1	3	2	-	6
		F	-	-	-	-	-	-	-	-	1	-	1
X95	Assault by other and unspecified firearm discharge	M	-	-	-	-	-	-	4	3	-	-	7
		F	-	-	-	-	-	-	1	-	-	1	2
X99	Assault by sharp object	M	-	-	-	-	-	-	3	2	-	-	5
		F	-	-	-	-	-	-	1	-	-	-	1
Y04	Assault by bodily force	M	-	-	-	-	1	1	-	1	-	1	4
		F	-	-	-	-	-	-	-	1	-	-	1

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2002

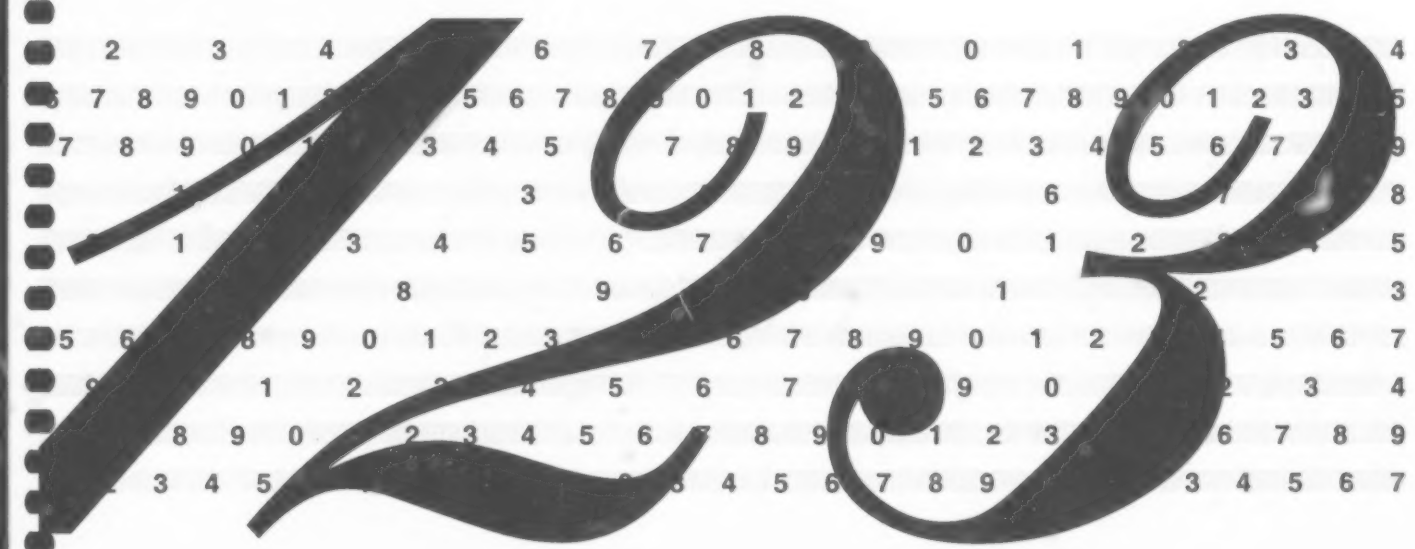
ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
Y09	Assault by unspecified means	M	-	-	-	-	1	-	3	4	-	-	8
		F	-	-	-	-	-	-	1	-	-	-	1
Y83	Surg. oper & othr. surg. proc. causing	M	1	-	-	-	-	-	-	1	2	2	6
	abno. reac. or later compl., w/o misadv.	F	-	-	-	-	-	-	-	-	3	2	5
Y85	Sequelae of transport accidents	M	-	-	-	-	-	-	2	1	2	2	7
		F	-	-	-	-	-	-	1	1	-	-	2
Y86	Sequelae of other accidents	M	-	-	-	-	-	1	3	2	4	1	11
		F	-	-	-	-	-	-	1	-	-	3	4
	Total Deaths	**M**	**107**	**17**	**16**	**24**	**86**	**122**	**832**	**2,672**	**5,237**	**5,499**	**14,612**
		F	**70**	**13**	**7**	**20**	**42**	**53**	**391**	**1,720**	**3,796**	**7,962**	**14,074**

Note: The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above. Causes with less than five deaths are not shown separately, but are included in the total. Non-residents and unknown gender are excluded.

Note: Only causes with five or more deaths are shown.

Appendix 3

Selected Health Status Indicators by Local Health Area, Health Service Delivery Area, and Health Authority, British Columbia, 1998–2002



Preamble to Appendix 3

This appendix consists of six tables:

Table A Summary Statistics by Local Health Area, British Columbia, 1998–2002.

Table B Mortality in British Columbia by Local Health Area, British Columbia, 1998–2002.

Table C Summary Statistics by Health Service Delivery Area, British Columbia, 1998–2002.

Table D Mortality in British Columbia by Health Service Delivery Area, British Columbia, 1998–2002.

Table E Summary Statistics by Health Authority, British Columbia, 1998–2002.

Table F Mortality in British Columbia by Health Authority, British Columbia, 1998–2002.

Assignment of events to Local Health Areas, Health Service Delivery Areas or Health Authorities was based upon the usual residence of the mother for live births and stillbirths, and the usual residence of the decedent for deaths. Tables A, C and E provide population estimates for 2002, and counts and rates for the five-year period 1998–2002 for live births, stillbirths, deaths, infant deaths, low birth weight live births, cesarean live birth deliveries, pre-term live births, live births to teenage mothers, and live births to elderly gravida. The footnotes for all tables (A through E) are common and are shown under Tables E and F.

Tables B, D and E provide the Standardized Morality Ratios (SMR) with statistical significance, number of deaths (in the column labeled Death), trends in Age Standardized Mortality Rates (in the column labeled TR) based on three-year moving averages from 1986 to 2002, Potential Years of Life Lost Index (PYLLI) with statistical significance, and the number of deaths under age 75 (in the column labeled D <75). These statistics are provided for:

Category	Cause of Death	ICD-10 Codes
01	All causes of death	A00–Y89
02	Cancers (all cancer sites)	C00–D48
03	Lung cancer	C33, C34, C38.4, C45.0
04	Endocrine, nutritional, and metabolic diseases	E00–E89.9
05	Diabetes	E10.0–E14.9
06	Circulatory system diseases	I00–I99
07	Ischaemic heart disease	I20–I25
08	Cerebrovascular disease/stroke	I60–I69
09	Diseases of arteries, arterioles and capillaries	I70–I78
10	Respiratory system diseases	J00–J98
11	Pneumonia and influenza	J10–J18
12	Chronic lung disease	J40–J44
13	Digestive system diseases	K00–K92
14	Motor vehicle accidents	V02–V04, V09, V12–V14, V19.0–V19.6, V20–V79, V80.3–V80.5, V82.0–V82.1, V82.3–V89.0, V89.2, V89.9, Y85.0.
15	Accidental falls	W00–W19
16	Suicide	X60–X84, Y87
17	Alcohol-related deaths	see Glossary
18	Medically treatable diseases	see Glossary
19	Drug-induced deaths	see Glossary

For Total Vancouver, please refer to HSDA 32 Vancouver in Tables C and D.

Table A

BRITISH COLUMBIA, 1998-2002

SUMMARY STATISTICS BY LOCAL HEALTH AREA

		2002	Live Birth		Stillbirth		Death		Infant Death	
	Local Health Area	Population	Total	Rate	Total	Rate[2]	Total	Rate	Total	Rate[1]
001	Fernie	15,894	651	8.43	-	-	379	4.90	1	1.54
002	Cranbrook	25,760	1,166	9.11	6	5.12	838	6.55	2	1.72
003	Kimberley	8,811	305	6.96	1	3.27	409	9.33	1	3.28
004	Windermere	9,597	341	7.55	2	5.83	220	4.87	1	2.93
005	Creston	12,481	657	10.31	1	1.52	678	10.64	2	3.04
006/007	Kootenay Lake/Nelson	28,073	1,255	6.87	11	8.69	1,025	7.24	6	4.78
009	Castlegar	13,366	546	8.06	6	10.87	546	8.06	2	3.66
010	Arrow Lakes	5,218	224	8.61	-	-	239	9.18	1	4.46
011	Trail	20,308	774	7.50	4	5.14	1,027	9.95	4	5.17
012/013	Grand Forks/Kettle Valley	12,611	461	7.20	4	8.60	573	8.95	3	6.51
014	Southern Okanagan	18,298	690	7.52	6	8.62	1,160	12.65	3	4.35
015	Penticton	39,938	1,578	7.87	10	6.30	2,302	11.48	4	2.53
016	Keremeos	4,865	217	9.09	1	4.59	260	10.89	2	9.22
017	Princeton	4,678	154	6.40	1	6.45	246	10.22	2	12.99
018	Golden	7,665	366	9.73	-	-	182	4.84	1	2.73
019	Revelstoke	8,537	405	9.47	2	4.91	280	6.54	1	2.47
020	Salmon Arm	32,095	1,147	7.22	9	7.79	1,411	8.89	4	3.49
021	Armstrong-Spallumcheen	9,941	388	7.91	3	7.67	354	7.22	-	-
022	Vernon	59,838	2,657	8.99	16	5.99	2,632	8.90	6	2.26
023	Central Okanagan	155,581	6,754	8.86	41	6.03	6,078	7.97	25	3.70
024	Kamloops	103,603	4,600	8.93	25	5.41	3,597	6.98	21	4.57
025	100 Mile House	14,387	606	8.17	4	6.56	546	7.36	3	4.95
026	North Thompson	5,046	253	10.00	1	3.94	125	4.94	2	7.91
027	Cariboo-Chilcotin	28,749	1,655	11.50	8	4.81	725	5.04	12	7.25
028	Quesnel	25,692	1,309	10.07	5	3.81	772	5.94	7	5.35
029	Lillooet	4,889	304	12.76	2	6.54	174	7.31	1	3.29
030	South Cariboo	7,762	308	8.04	1	3.24	310	8.09	1	3.25
031	Merritt	11,516	569	9.86	4	6.98	464	8.04	3	5.27
032	Hope	8,716	386	9.05	5	12.79	405	9.50	4	10.36
033	Chilliwack	74,424	4,009	11.10	31	7.67	2,905	8.04	16	3.99
034	Abbotsford	124,894	7,913	13.20	58	7.28	4,135	6.90	30	3.79
035	Langley	116,212	6,205	10.76	44	7.04	3,596	6.24	20	3.22
036	Surrey	396,440	24,418	12.99	154	6.27	10,763	5.72	119	4.87
037	Delta	101,730	5,109	10.05	38	7.38	2,683	5.28	11	2.15
038	Richmond	174,617	7,942	9.37	52	6.50	4,029	4.76	33	4.16
040	New Westminster	57,603	3,206	11.29	25	7.74	2,543	8.96	8	2.50
041	Burnaby	205,955	10,220	10.23	81	7.86	6,693	6.70	41	4.01
042	Maple Ridge	84,533	4,336	10.82	30	6.87	2,372	5.92	14	3.23
043	Coquitlam	204,483	10,707	10.91	62	5.76	4,381	4.46	32	2.99
044	North Vancouver	135,313	6,533	9.79	47	7.14	3,964	5.94	18	2.76
045	West Vancouver-Bowen Is.	50,405	1,509	6.05	12	7.89	2,267	9.09	2	1.33
046	Sunshine Coast	27,032	1,019	7.64	9	8.75	1,164	8.73	1	0.98
047	Powell River	20,306	818	8.04	8	9.69	860	8.45	5	6.11
048	Howe Sound	30,574	1,991	13.25	18	8.96	529	3.52	5	2.51
049	Bella Coola Valley	3,509	243	14.11	4	16.19	90	5.22	3	12.35
050	Queen Charlotte	5,266	344	13.01	4	11.49	146	5.52	2	5.81
051	Snow Country	777	51	12.80	-	-	24	6.02	-	-
052	Prince Rupert	17,004	1,100	12.73	11	9.90	476	5.51	4	3.64
053	Upper Skeena	5,679	388	13.54	1	2.57	137	4.78	2	5.15
054	Smithers	17,940	1,233	13.61	20	15.96	385	4.25	10	8.11
055/093	Burns Lake/Eutsuk	7,842	472	12.22	5	10.48	214	5.54	3	6.36
056	Nechako	17,606	1,230	14.00	12	9.66	457	5.20	5	4.07
057	Prince George	100,129	5,630	11.07	49	8.63	2,391	4.70	18	3.20
059	Peace River South	27,582	1,525	11.01	6	3.92	782	5.65	11	7.21
060	Peace River North	31,196	2,371	15.59	21	8.78	532	3.50	5	2.11
061	Greater Victoria	209,269	8,584	8.18	43	4.98	11,173	10.65	37	4.31
062	Sooke	55,317	2,849	10.48	14	4.89	1,442	5.30	8	2.81
063	Saanich	61,481	1,996	6.57	10	4.99	2,847	9.36	7	3.51
064	Gulf Islands	14,518	463	6.58	2	4.30	651	9.26	2	4.32
065	Cowichan	52,602	2,535	9.67	19	7.44	1,991	7.60	8	3.16
066	Lake Cowichan	6,244	256	8.18	-	-	188	6.01	2	7.81
067	Ladysmith	16,479	721	8.80	4	5.52	861	10.51	3	4.16
068	Nanaimo	93,889	4,030	8.69	29	7.14	3,706	7.99	15	3.72
069	Qualicum	40,115	1,222	6.23	6	4.89	2,121	10.81	3	2.45
070	Alberni	31,662	1,523	9.51	12	7.82	1,258	7.86	7	4.60
071	Courtenay	58,252	2,454	8.46	12	4.87	2,164	7.46	19	7.74
072/084	Campbell River/V.I. West	42,198	2,147	9.99	17	7.86	1,248	5.81	9	4.19
075	Mission	37,878	2,135	11.47	17	7.90	1,214	6.52	10	4.68
076	Agassiz-Harrison	8,348	407	10.27	2	4.89	322	8.13	1	2.46
077	Summerland	11,471	379	6.58	3	7.85	740	12.85	1	2.64
078	Enderby	7,268	331	9.11	4	11.94	340	9.36	5	15.11
080	Kitimat	11,882	642	10.51	4	6.19	252	4.12	3	4.67
081	Fort Nelson	6,238	455	14.52	3	6.55	85	2.71	2	4.40
083	Central Coast	1,738	120	13.46	-	-	71	7.96	3	25.00
085	Vancouver Island North	13,916	880	12.25	10	11.24	312	4.34	9	10.23
087/094	Stikine/Telegraph Creek	1,992	94	9.80	1	10.53	45	4.69	-	-
088	Terrace	22,046	1,437	12.73	17	11.69	550	4.87	5	3.48
092	Nisga'a	1,896	155	15.90	-	-	58	5.95	2	12.90
161	Vancouver City Centre	97,144	3,566	7.67	31	8.62	3,334	7.17	10	2.80
162	Van. Downtown E. Side	52,341	2,302	8.90	25	10.74	2,836	10.96	15	6.52
163	Vancouver North East	100,041	5,716	11.70	50	8.67	2,940	6.02	31	5.42
164	Vancouver West Side	125,363	5,079	8.25	31	6.07	4,010	6.51	20	3.94
165	Vancouver Midtown	88,347	5,291	12.14	43	8.06	2,538	5.82	21	3.97
166	Vancouver South	128,371	6,353	10.12	41	6.41	4,089	6.51	20	3.15
	N.S.	-	12		-		24		-	-
	PROVINCIAL TOTAL	**4,141,272**	**205,384**	**10.10**	**1,432**	**6.92**	**139,885**	**6.88**	**821**	**4.00**

Please refer to footnotes on page 191

Table A

SUMMARY STATISTICS BY LOCAL HEALTH AREA

		Low Birth Wt. Live Birth		Cesarean		Pre-term		Teenage Mother		Elderly Gravida	
	Local Health Area	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]
001	Fernie	19	29.19	126	193.55	24	36.87	44	67.59	89	136.71
002	Cranbrook	41	35.16	209	179.25	56	48.03	111	95.20	124	106.35
003	Kimberley	11	36.07	56	183.61	6	19.67	21	68.85	47	154.10
004	Windermere	9	26.39	52	152.49	10	29.33	19	55.72	48	140.76
005	Creston	27	41.10	128	194.82	39	59.36	96	146.12	95	144.60
006/007	Kootenay Lake/Nelson	47	37.45	217	172.91	58	46.22	48	38.25	232	184.86
009	Castlegar	29	53.11	125	228.94	31	56.78	26	47.62	70	128.21
010	Arrow Lakes	20	89.29	47	209.82	23	102.68	11	49.11	24	107.14
011	Trail	46	59.43	219	282.95	60	77.52	28	36.18	119	153.75
012/013	Grand Forks/Kettle Valley	25	54.23	107	232.10	34	73.75	44	95.44	75	162.69
014	Southern Okanagan	40	57.97	130	188.41	52	75.36	39	56.52	92	133.33
015	Penticton	96	60.84	285	180.61	133	84.28	129	81.75	231	146.39
016	Keremeos	11	50.69	34	156.68	10	46.08	13	59.91	26	119.82
017	Princeton	11	71.43	20	129.87	12	77.92	10	64.94	17	110.39
018	Golden	12	32.79	99	270.49	14	38.25	36	98.36	31	84.70
019	Revelstoke	17	41.98	97	239.51	23	56.79	29	71.60	59	145.68
020	Salmon Arm	54	47.08	338	294.68	52	45.34	61	53.18	171	149.08
021	Armstrong-Spallumcheen	15	38.66	95	244.85	24	61.86	16	41.24	54	139.18
022	Vernon	136	51.19	650	244.64	157	59.09	134	50.43	374	140.76
023	Central Okanagan	324	47.97	1,593	235.86	462	68.40	342	50.64	1,106	163.75
024	Kamloops	257	55.87	1,179	256.30	354	76.96	297	64.57	567	123.26
025	100 Mile House	41	67.66	140	231.02	44	72.61	46	75.91	85	140.26
026	North Thompson	7	27.67	59	233.20	11	43.48	20	79.05	40	158.10
027	Cariboo-Chilcotin	109	65.86	561	338.97	133	80.36	174	105.14	170	102.72
028	Quesnel	66	50.42	348	265.85	74	56.53	110	84.03	128	97.78
029	Lillooet	9	29.61	82	269.74	15	49.34	37	121.71	35	115.13
030	South Cariboo	15	48.70	60	194.81	18	58.44	30	97.40	43	139.61
031	Merritt	28	49.21	138	242.53	44	77.33	48	84.36	68	119.51
032	Hope	14	36.27	83	215.03	30	77.72	47	121.76	36	93.26
033	Chilliwack	198	49.39	979	244.20	277	69.09	314	78.32	513	127.96
034	Abbotsford	369	46.63	1,772	223.94	442	55.86	369	46.63	844	106.66
035	Langley	265	42.71	1,421	229.01	394	63.50	220	35.46	1,021	164.54
036	Surrey	1,427	58.44	6,145	251.66	1,712	70.11	795	32.56	3,800	155.62
037	Delta	230	45.02	1,260	246.62	308	60.29	117	22.90	1,121	219.42
038	Richmond	399	50.24	2,056	258.88	484	60.94	108	13.60	2,101	264.54
040	New Westminster	190	59.26	748	233.31	248	77.35	130	40.55	718	223.96
041	Burnaby	578	56.56	2,263	221.43	748	73.19	261	25.54	2,391	233.95
042	Maple Ridge	214	49.35	1,086	250.46	301	69.42	158	36.44	774	178.51
043	Coquitlam	511	47.73	2,472	230.88	718	67.06	250	23.35	2,500	233.49
044	North Vancouver	263	40.26	1,544	236.34	394	60.31	85	13.01	2,080	318.38
045	West Vancouver-Bowen Is.	65	43.07	366	242.54	95	62.96	12	7.95	604	400.27
046	Sunshine Coast	45	44.16	207	203.14	66	64.77	38	37.29	232	227.67
047	Powell River	23	28.12	235	287.29	37	45.23	61	74.57	113	138.14
048	Howe Sound	103	51.73	478	240.08	152	76.34	88	44.20	407	204.42
049	Bella Coola Valley	10	41.15	50	205.76	25	102.88	34	139.92	30	123.46
050	Queen Charlotte	14	40.70	76	220.93	24	69.77	22	63.95	47	136.63
051	Stikine Country	3	58.82	14	274.51	2	39.22	3	58.82	-	0.00
052	Prince Rupert	43	39.09	206	187.27	68	61.82	128	116.36	117	106.36
053	Upper Skeena	22	56.70	67	172.68	28	72.16	71	182.99	30	77.32
054	Smithers	55	44.61	326	264.40	75	60.83	87	70.56	159	128.95
055/093	Burns Lake/Eutsuk	7	14.83	101	213.98	19	40.25	48	101.69	36	76.27
056	Nechako	60	48.78	233	189.43	68	55.28	110	89.43	111	90.24
057	Prince George	288	51.15	1,392	247.25	354	62.88	405	71.94	587	104.26
059	Peace River South	55	36.07	300	196.72	65	42.62	125	81.97	150	98.36
060	Peace River North	110	46.39	515	217.21	128	53.99	200	84.35	247	104.18
061	Greater Victoria	446	51.96	2,295	267.36	610	71.06	346	40.31	1,829	213.07
062	Sooke	138	48.44	757	265.71	206	72.31	118	41.42	474	166.37
063	Saanich	96	46.10	525	263.03	134	67.13	63	31.56	464	232.46
064	Gulf Islands	19	41.04	87	187.90	30	64.79	13	28.08	115	248.38
065	Cowichan	125	49.31	589	232.35	188	74.16	233	91.91	387	152.66
066	Lake Cowichan	8	31.25	69	269.53	12	46.88	25	97.66	30	117.19
067	Ladysmith	40	55.48	167	231.62	57	79.06	68	94.31	79	109.57
068	Nanaimo	193	47.89	982	243.67	293	72.70	275	68.24	599	148.64
069	Qualicum	37	30.28	330	270.05	80	65.47	66	54.01	226	184.94
070	Alberni	58	38.08	313	205.52	94	61.72	175	114.90	183	120.16
071	Courtenay	137	55.83	534	217.60	183	74.57	176	71.72	443	180.52
072/084	Campbell River/V.I. West	90	41.92	527	245.46	128	59.62	172	80.11	266	123.89
075	Mission	108	50.59	473	221.55	144	67.45	152	71.19	336	157.38
076	Agassiz-Harrison	11	27.03	87	213.76	21	51.60	35	86.00	45	110.57
077	Summerland	18	47.49	76	200.53	28	73.88	12	31.66	71	187.34
078	Enderby	26	78.55	100	302.11	22	66.47	29	87.61	41	123.87
080	Kitimat	21	32.71	223	347.35	29	45.17	52	81.00	67	104.36
081	Fort Nelson	13	28.57	117	257.14	19	41.76	41	90.11	27	59.34
083	Central Coast	6	50.00	22	183.33	22	183.33	15	125.00	11	91.67
085	Vancouver Island North	39	44.32	193	219.32	73	82.95	131	148.86	95	107.95
087/094	Stikine/Telegraph Creek	8	85.11	18	191.49	13	138.30	17	180.85	13	138.30
088	Terrace	65	45.23	359	249.83	120	83.51	135	93.95	145	100.90
092	Nisga'a	7	45.16	41	264.52	21	135.48	29	187.10	14	90.32
161	Vancouver City Centre	182	51.04	936	262.48	230	64.50	28	7.85	944	264.72
162	Van. Downtown E. Side	128	55.60	501	217.64	209	90.79	99	43.01	554	240.66
163	Vancouver North East	333	58.26	1,329	232.51	398	69.63	120	20.99	1,356	237.23
164	Vancouver West Side	233	45.88	1,277	251.43	341	67.14	22	4.33	1,837	361.69
165	Vancouver Midtown	306	57.83	1,314	248.35	390	73.71	138	26.08	1,533	289.74
166	Vancouver South	351	55.25	1,514	238.31	451	70.99	120	18.89	1,570	247.13
	N.S.	3		2		3		1		4	
	PROVINCIAL TOTAL	**10,328**	**50.29**	**49,346**	**240.26**	**13,784**	**67.11**	**9,211**	**44.85**	**38,747**	**188.66**

Please refer to footnotes on page 191

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

Table B

BRITISH COLUMBIA, 1998-2002

		01 All Causes of Death						02 All Cancer Sites						03 Lung Cancer						04 End/Nut/Met. Diseases etc.					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	0.95		379	↘	0.88	179	1.02		116		1.01	68	1.28		38	↗	1.08	22	1.00		13		0.72	9
002	Cranbrook	1.04		838	↘	0.90	358	0.97		223	↗	0.77	* 122	1.24		76	↗	0.91	47	1.49	*	40	↗	0.80	15
003	Kimberley	1.03		409	↘	0.85	147	1.12		123	↘	1.08	64	1.04		30		1.23	19	1.19		18		0.94	6
004	Windermere	0.82	*	220		0.92	108	0.82		66		0.91	43	0.83		18		0.84	12	1.35		12	↗	0.21	* 3
005	Creston	1.01		678		1.09	247	1.08		199		1.06	111	1.11		54		1.08	39	1.11		25		0.51	8
006/007	Kootenay Lake/Nelson	0.98		1,025	↘	1.11	422	0.97		276		1.02	157	1.04		77	↗	1.09	53	0.93		32	↗	1.83	17
009	Castlegar	1.09		546		1.12	223	0.98		134		0.99	72	0.81		29		0.83	19	1.32		22		0.73	9
010	Arrow Lakes	1.06		239		1.23	93	1.12		69	↗	1.19	41	0.99		16		0.61	9	0.79		6		0.83	2
011	Trail	1.10	*	1,027	↘	1.12	354	1.01		250	↘	1.11	134	1.03		66	↘	1.34	41	1.41	*	44	↗	1.68	14
012/013	Grand Forks/Kettle Valley	1.03		573	↘	1.06	257	1.08		176		0.96	100	0.98		43		1.27	33	1.27		24		1.34	9
014	Southern Okanagan	0.97		1,160	↘	1.14	429	1.00		337		1.18	174	1.09		97		1.30	53	1.15		47		0.91	11
015	Penticton	0.98		2,302	↘	1.02	743	1.01		633		1.06	304	0.98		157		0.99	83	0.95		78	↗	1.18	27
016	Keremeos	0.99		260		1.54	* 123	1.10		84		1.30	53	1.70	*	35		1.84	24	0.90		8		1.37	4
017	Princeton	1.21	*	246		1.41	* 115	1.20		76	↗	1.21	45	1.38		24	↗	1.54	17	0.87		6		0.87	3
018	Golden	1.10		182	↘	1.09	102	1.11		54	↗	0.98	36	1.40		18	↗	1.09	12	0.93		5		0.06	* 1
019	Revelstoke	1.19	*	280		1.19	133	1.07		73		0.86	45	1.33		24		0.82	16	0.77		6		0.72	3
020	Salmon Arm	0.99		1,411	↘	1.07	587	1.00		410		1.18	238	0.97		105		1.15	66	0.81		39		0.77	14
021	Armstrong-Spallumcheen	0.95		354		1.09	146	1.04		107	↗	1.10	61	0.96		26	↗	1.15	16	0.89		11	↗	1.19	5
022	Vernon	1.04		2,632	↘	1.06	983	1.02		714		1.08	380	1.05		194	↗	1.21	119	1.08		93		1.34	36
023	Central Okanagan	0.90	*	6,078	↘	0.89	* 2,103	0.93	*	1,718	↘	0.99	891	0.91	*	437	↘	0.99	264	0.79	*	179		0.85	62
024	Kamloops	1.13	*	3,597	↘	1.23	* 1,700	1.05		971	↘	1.06	593	1.12		278	↘	1.15	187	1.21	*	128	↗	1.24	52
025	100 Mile House	1.17	*	546	↘	1.37	* 315	1.01		151	↘	1.10	102	1.21		50		1.56	36	1.40		22		2.29	15
026	North Thompson	1.09		125		1.36	80	1.04		37	↘	1.27	26	1.35		13		1.65	9	0.53		2		0.40	1
027	Cariboo-Chilcotin	1.13	*	725	↘	1.29	* 415	0.95		182	↘	1.06	124	0.95		49	↘	0.95	34	1.24		26	↗	0.72	12
028	Quesnel	1.15	*	772	↘	1.21	* 427	1.19	*	235	↗	1.01	147	1.31	*	69		1.02	50	1.14		25		0.86	10
029	Lillooet	1.44	*	174		1.40	89	1.08		39		1.12	23	1.13		11		0.78	8	1.01		4		0.26	* 1
030	South Cariboo	1.18	*	310	↘	1.45	* 182	1.02		82		1.05	55	1.27		28		1.46	25	0.78		7		2.59	4
031	Merritt	1.35	*	464		1.75	* 265	1.07		107		1.07	72	0.95		25	↘	1.07	18	1.14		13		1.38	9
032	Hope	1.21	*	405		1.53	* 204	1.08		105		1.09	68	1.22		32	↘	1.47	25	1.68	*	19		1.69	9
033	Chilliwack	1.05	*	2,905	↘	1.13	* 1,141	1.06		808		1.11	430	1.00		200	↘	1.31	* 129	1.18		109	↗	1.36	49
034	Abbotsford	0.97	*	4,135		1.02	1,521	0.97		1,101		1.05	576	0.97		281	↗	1.17	178	1.10		155	↗	1.15	68
035	Langley	0.99		3,596	↘	0.93	* 1,461	1.08	*	1,085	↘	1.16	* 634	1.08		282		1.20	176	1.01		122		0.72	41
036	Surrey	0.92	*	10,763	↘	0.98	4,536	0.95	*	3,019	↘	0.96	1,661	0.90	*	742	↘	0.95	457	0.99		380	↗	1.27	* 182
037	Delta	0.89	*	2,883	↘	0.69	* 1,012	0.91	*	778	↘	0.93	435	0.78	*	173	↘	0.76	* 107	0.77	*	77		0.68	31
038	Richmond	0.82	*	4,029	↘	0.64	* 1,547	0.86	*	1,182	↘	0.82	* 686	0.92		330	↘	0.82	* 195	0.88		143	↗	0.63	* 51
040	New Westminster	1.17	*	2,543	↘	1.14	* 935	1.16	*	646	↘	1.04	328	1.18	*	164	↘	1.16	102	1.32	*	95	↗	0.98	26
041	Burnaby	0.98		6,693	↘	0.82	* 2,383	0.98		1,784	↘	0.93	942	0.99		462		0.91	276	1.00		224		0.91	86
042	Maple Ridge	1.11	*	2,372	↘	1.01	1,058	1.14	*	686		1.12	415	1.20	*	188		1.35	* 125	1.13		79		0.98	34
043	Coquitlam	0.97		4,381	↘	0.80	* 2,050	1.01		1,297	↘	0.99	835	1.04		348	↘	0.93	226	1.11		162		0.90	64
044	North Vancouver	0.94	*	3,964	↘	0.72	* 1,463	0.94	*	1,099	↘	0.87	* 605	0.87	*	266	↘	0.78	* 151	1.04		144	↗	0.83	52
045	West Van.-Bowen Is.	0.83	*	2,267	↘	0.58	* 553	0.83	*	592	↘	0.71	* 253	0.59	*	108		0.36	* 47	0.63	*	57	↘	0.63	13
046	Sunshine Coast	1.00		1,164	↘	1.02	469	1.11		366		1.03	197	1.15		101		1.20	67	0.71		28		0.91	12
047	Powell River	1.02		860	↘	1.05	351	1.14	*	266		1.17	152	1.24		76		1.33	51	1.13		32		0.99	9
048	Howe Sound	1.06		529		0.96	306	0.86		125		0.74	* 89	1.05		40		0.84	29	1.16		18		0.83	10
049	Bella Coola Valley	1.30	*	90	↘	1.96	* 64	0.91		19		0.88	14	0.18	*	1		-	-	1.79		4		4.13	3
050	Queen Charlotte	1.33	*	146		1.63	* 111	1.15		37	↘	1.42	31	0.94		8		1.40	7	1.42		5		1.71	4
051	Snow Country	2.12	*	24		2.40	* 23	1.78		7		1.73	7	-		-		-	-	2.82		1		0.49	1
052	Prince Rupert	1.27	*	476	↘	1.42	* 267	1.03		112	↘	0.97	72	0.87		25		0.86	15	1.56		19	↘	1.25	9
053	Upper Skeena	1.35	*	137		1.52	* 74	0.99		30		0.54	* 14	0.74		6		0.34	* 4	0.93		3		1.68	1
054	Smithers	1.14	*	385	↘	1.15	215	1.06		106		0.98	72	1.10		29		1.15	24	0.92		10		2.04	7
055/093	Burns Lake/Eutsuk	1.14		214	↘	1.31	114	1.02		58		0.73	32	1.04		16		0.71	9	0.65		4		0.65	2
056	Nechako	1.29	*	457		1.41	* 279	1.29	*	137	↗	1.38	* 91	1.05		30		0.82	19	1.91	*	22		1.27	11
057	Prince George	1.23	*	2,391	↘	1.11	* 1,384	1.17	*	687	↘	1.08	483	1.32	*	206	↘	1.08	150	1.26		79	↘	0.48	* 37
059	Peace River South	1.19	*	782	↘	1.21	* 400	1.03		194		1.02	123	1.24		62	↗	1.10	40	1.36		29	↗	1.78	21
060	Peace River North	0.99		532	↘	0.90	303	0.94		147		0.78	* 95	1.12		46		1.02	33	0.94		16	↗	0.89	10
061	Greater Victoria	1.03	*	11,173	↘	1.05	3,119	1.06	*	2,828		1.10	* 1,242	1.04		684		1.07	341	0.87	*	315	↗	1.29	119
062	Sooke	1.02		1,442	↘	0.87	* 657	1.16	*	478		1.05	286	1.24	*	134		1.09	85	0.97		45		0.68	23
063	Saanich	0.86	*	2,847	↘	0.79	* 832	0.97		882	↘	1.01	402	0.78	*	184		0.71	* 91	0.80	*	90		0.77	29
064	Gulf Islands	0.84	*	651	↘	0.95	230	0.93		207		0.94	104	0.91		54		0.72	23	0.49	*	13		0.57	6
065	Cowichan	0.99		1,991	↘	1.08	836	1.00		570	↘	1.09	325	1.10		165		1.08	95	0.77		52		0.65	* 21
066	Lake Cowichan	0.95		188	↘	1.17	112	1.05		63	↘	1.25	47	1.23		20		1.97	17	0.30		2		0.24	* 2
067	Ladysmith	1.14	*	861	↘	1.16	335	1.16	*	247		1.21	131	1.14		64		1.34	36	1.02		26	↗	0.48	* 9
068	Nanaimo	1.01		3,706	↘	1.08	* 1,473	1.00		1,015	↘	1.04	552	0.96		257	↘	1.00	156	0.85		104		0.89	35
069	Qualicum	0.94	*	2,121	↘	0.95	779	0.99		651		1.10	348	0.87		153	↘	0.91	90	0.86		67	↗	0.88	24
070	Alberni	1.16	*	1,258	↘	1.31	* 609	1.14	*	353		1.11	217	1.07		88		0.96	61	1.36	*	49	↗	1.10	18
071	Courtenay	1.01		2,164	↘	1.09	916	1.02		632	↘	1.08	372	1.04		171	↘	1.17	116	1.04		75		1.03	30
072/084	Campbell River/V.I. West	1.09	*	1,248	↘	1.17	* 650	1.10		371		1.13	232	1.43	*	128	↗	1.43	* 80	1.09		41		0.95	16
075	Mission	1.18	*	1,214	↘	1.20	* 577	1.14	*	331	↘	1.20	201	1.05		80	↘	1.02	47	1.30		44	↗	1.55	23
076	Agassiz-Harrison	1.27	*	322	↗	1.38	* 156	1.26	*	95	↗	1.35	61	1.51	*	31		2.06	* 24	1.18		10	↗	0.19	* 4
077	Summerland	1.02		740	↘	0.97	196	0.99		190		1.06	90	0.91		45		0.87	21	0.98		24		0.70	5
078	Enderby	1.14	*	340	↘	1.46	* 145	1.16		97		1.12	52	1.18		26		0.93	15	0.60		6	↘	1.28	4
080	Kitimat	1.12		252	↘	1.04	167	0.95		69	↘	0.92	54	1.00		20		0.83	14	1.64		12		2.19	8
081	Fort Nelson	1.25		85	↘	1.17	68	1.13		22		0.84	19	1.60		8		1.56	6	3.51	*	7		1.49	4
083	Central Coast	2.30	*	71		3.00	* 53	0.95		9	↘	1.26	6	0.39		1		0.92	1	5.09	*	5		8.73	3
085	Vancouver Island North	1.29	*	312		1.52	* 216	1.10		82	↘	1.06	63	1.04		21		0.74	17	0.79		6	↗	0.15	* 3
087/094	Stikine/Telegraph Creek	1.03		45		1.71	32	0.32	*	4		0.20	* 4	0.91		3		0.70	3	1.42		2		1.69	2
088	Terrace	1.23	*	550	↘	1.21	* 320	1.04		141	↘	1.10	103	1.05		38		1.23	30	1.38		20	↗	1.31	9
092	Nisga'a	1.83	*	58		2.38	* 41	1.12		11		1.95	9	1.13		3		1.55	3	3.93	*	4		2.36	2
161	Vancouver City Centre	1.13	*	3,334	↘	1.18	* 1,413	1.01		758	↘	0.87	* 387	1.02		192		0.83	100	0.99		95	↗	1.24	42
162	Van. Downtown E. Side	1.55	*	2,836		2.98	* 1,804	1.28	*	625		1.47	* 379	1.53	*	193	↘	1.54	* 119	1.39	*	84		2.10	* 41
163	Vancouver North East	0.98		2,940	↘	0.95	1,223	0.99		828	↘	0.96	468	1.08		238	↘	1.00	147	1.13		112	↗	0.79	39
164	Vancouver West Side	0.86	*	4,010	↘	0.62	* 1,051	0.87	*	1,006	↘	0.71	* 437	0.69	*	200	↘	0.64	* 95	0.74	*	113		0.54	* 26
165	Vancouver Midtown	1.04	*	2,538	↘	0.94	1,038	0.93		607	↘	0.96	347	0.96		162	↘	0.94	100	1.14		90		0.71	29
166	Vancouver South	0.91	*	4,089	↘	0.81	* 1,403	0.87	*	1,028	↘	0.64	* 513	0.92		277		0.74	* 143	1.03		152	↗	1.11	57
	N.S.	-		24		-	21	-		2		-	1	-		1		-	1	-		-		-	-
	PROVINCIAL TOTAL	**1.00**		**139,885**	↘	**1.00**	**56,021**	**1.00**		**38,317**	↘	**1.00**	**21,073**	**1.00**		**9,950**	↘	**1.00**	**6,058**	**1.00**		**4,632**	↗	**1.00**	**1,837**

Please refer to footnotes on page 191

Table B

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1998-2002

		05 Diabetes						06 Circulatory System						07 Ischemic Heart Disease						08 Cerebrovascular Disease/Stroke					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	1.10		11		0.98	8	0.93		123	↘	0.88	40	0.93		62	↘	0.91	23	0.65		19		0.49	4
002	Cranbrook	1.21		25	↗	0.77	10	1.08		298	↘	0.89	87	1.03		143	↘	0.91	47	0.95		59	↘	0.73	12
003	Kimberley	1.05		11		1.30	5	0.96		139	↘	0.88	35	0.93		67	↘	0.83	19	0.84		28	↘	1.26	7
004	Windermere	1.59		11	↗	0.26	* 2	0.71	*	63	↘	0.92	25	0.66	*	30	↘	1.23	16	0.83		16		0.43	* 4
005	Creston	0.85		15		0.62	5	0.98		241	↘	0.89	56	0.90		111	↘	0.86	33	0.89		50	↘	1.30	11
006/007	Kootenay Lake/Nelson	0.90		24	↗	0.74	11	1.01		374	↘	0.87	100	1.22	*	225	↘	0.92	62	0.77	*	65	↘	0.98	19
009	Castlegar	1.63	*	21		1.10	9	1.15		206	↘	1.18	61	1.17		104	↘	0.97	35	0.98		40	↘	1.48	9
010	Arrow Lakes	0.51		3		0.30	* 1	0.89		73	↘	0.94	18	0.91		37	↘	0.82	11	0.69		13		1.80	3
011	Trail	1.65	*	40	↗	2.35	13	1.18	*	407	↘	1.04	88	1.27	*	215	↘	1.24	55	0.95		76	↘	0.61	10
012/013	Grand Forks/Kettle Valley	1.42		21		1.30	7	0.96		189	↘	0.90	66	1.03		103	↘	0.86	37	0.62	*	27		0.90	9
014	Southern Okanagan	1.05		34		0.88	8	0.96		426	↘	1.07	118	0.94		210	↘	1.18	67	0.89		90		1.07	21
015	Penticton	1.00		62	↗	0.97	22	0.97		866	↘	1.05	187	0.95		416	↘	1.10	105	1.01		210		0.91	34
016	Keremeos	0.85		6		1.25	3	1.01		96		0.76	26	1.12		54		0.64	12	0.66		14		0.75	6
017	Princeton	1.10		6		1.21	3	1.11		77	↘	1.20	29	0.97		35	↘	1.06	17	1.07		16		0.91	5
018	Golden	1.21		5		0.09	* 1	1.18		62		1.26	26	0.97		26		1.52	15	1.39		16		1.24	4
019	Revelstoke	0.83		5		0.29	* 2	1.42	*	112		1.86	* 42	0.99		39	↘	1.33	18	1.63	*	29		1.82	7
020	Salmon Arm	0.95		36		1.11	14	1.04		535	↘	1.09	165	0.89		230	↘	1.05	81	1.12		130	↘	1.30	31
021	Armstrong-Spallumcheen	0.93		9	↗	1.10	4	0.97		129		1.09	35	0.95		63	↘	1.03	22	1.09		33	↗	1.77	6
022	Vernon	1.11		74	↗	0.94	27	1.04		949	↘	1.03	237	1.01		460	↘	0.92	120	1.05		220		0.87	42
023	Central Okanagan	0.71	*	126		0.66	* 41	0.89	*	2,178	↘	0.83	* 480	0.78	*	952	↘	0.75	* 248	0.83	*	471	↘	0.93	83
024	Kamloops	1.26	*	103		1.39	42	1.10	*	1,179	↘	1.19	* 388	1.06		575	↘	1.14	227	0.87	*	208	↘	0.79	51
025	100 Mile House	1.22		15		1.44	10	1.27	*	192		1.59	* 89	1.26	*	100		1.41	51	1.28		41		2.45	18
026	North Thompson	0.34		1		0.61	1	1.15		41		1.26	21	0.96		18		1.02	9	1.06		8	↗	1.73	3
027	Cariboo-Chilcotin	0.99		16	↗	0.50	8	1.14	*	232	↘	0.90	86	0.91		94	↘	0.76	42	1.24		55		1.40	18
028	Quesnel	1.23		21		0.79	8	1.05		230	↘	1.24	97	1.06		119	↘	1.37	54	1.07		51	↘	1.14	19
029	Lillooet	1.30		4		0.40	1	1.37	*	53		0.97	22	0.95		19		0.67	9	2.01	*	17		3.02	10
030	South Cariboo	0.72		5		2.22	3	1.08		95	↘	1.41	46	0.99		45	↘	1.36	21	0.89		17		0.98	8
031	Merritt	1.24		11		2.06	8	1.44	*	169	↘	1.96	* 73	1.47	*	87	↘	2.04	* 40	1.77	*	46		3.13	* 21
032	Hope	1.58		14		2.48	9	1.17		138	↘	1.54	* 55	1.16		69	↘	1.70	30	0.87		23	↘	0.84	10
033	Chilliwack	1.35	*	97	↗	1.67	40	1.09	*	1,077	↘	1.08	259	1.22	*	598	↘	1.15	157	1.01		227	↘	0.84	37
034	Abbotsford	1.15		125	↗	1.45	56	1.02		1,562	↘	1.03	346	1.11	*	846	↘	0.95	190	0.84	*	299	↘	1.05	54
035	Langley	1.00		93		0.70	29	0.95		1,212	↘	0.89	318	1.01		639	↘	0.94	187	1.05		304		0.82	57
036	Surrey	1.04		308	↗	1.34	* 150	0.97		3,930	↘	1.03	1,054	1.08	*	2,164	↘	1.08	621	0.90	*	839	↘	0.91	176
037	Delta	0.80		61		0.56	* 24	0.95		982	↘	0.71	* 252	1.00		518	↘	0.75	* 147	0.94		221	↘	0.64	* 50
038	Richmond	0.91		112		0.64	* 41	0.87	*	1,443	↘	0.69	* 377	0.89	*	740	↘	0.72	* 207	0.94		356	↘	0.81	76
040	New Westminster	1.36	*	75		1.41	23	1.20	*	957	↘	1.42	* 220	1.21	*	465	↘	1.55	* 137	1.32	*	249		1.20	36
041	Burnaby	0.99		171		0.93	68	1.05	*	2,542	↘	0.83	* 543	1.14	*	1,360	↘	0.90	323	0.97		546	↘	0.81	92
042	Maple Ridge	1.18		64		1.17	26	1.23	*	881	↘	1.23	* 260	1.23	*	441	↘	1.14	141	1.17	*	191	↘	1.19	39
043	Coquitlam	1.18		131	↗	1.03	50	1.00		1,461	↘	0.89	485	0.97		709	↘	0.96	274	1.10		362	↘	0.88	97
044	North Vancouver	0.98		105	↗	0.65	* 31	0.99		1,436	↘	0.75	* 346	1.01		723	↘	0.82	* 202	1.03		344	↘	0.68	* 65
045	West Van.-Bowen Is.	0.61	*	43	↘	0.54	* 10	0.81	*	832	↘	0.48	* 114	0.80	*	400	↘	0.41	* 66	1.00		239	↘	0.75	30
046	Sunshine Coast	0.82		25	↗	0.86	9	0.97		405	↘	0.86	100	0.86	*	180	↘	0.84	55	1.18		111		0.70	14
047	Powell River	0.87		19		0.74	5	1.04		315	↘	1.03	87	0.93		140	↘	1.31	53	1.19		82	↘	0.86	18
048	Howe Sound	1.36		16		1.24	9	1.11		160		1.03	66	0.95		70	↘	0.85	27	1.18		36		0.81	12
049	Bella Coola Valley	0.58		1		1.41	1	1.10		23	↘	1.88	15	0.92		10	↘	1.52	8	1.55		7		1.10	2
050	Queen Charlotte	0.75		2		1.72	2	1.09		37		1.46	21	0.80		14	↘	1.10	10	0.82		6		0.92	3
051	Snow Country	3.73		1		0.76	1	2.52	*	7		2.50	6	0.64		1		1.06	1	3.96		2		4.15	2
052	Prince Rupert	1.61		15		0.99	6	1.23	*	147	↘	1.71	* 66	0.99		60	↘	1.40	29	1.21		32		2.17	12
053	Upper Skeena	0.81		2		-	-	1.35		41		1.70	18	0.95		15		1.85	10	1.26		8		0.18	* 2
054	Smithers	0.48		4		1.10	3	1.22	*	125		1.06	44	1.02		54	↘	1.42	28	1.25		28		1.14	7
055/093	Burns Lake/Eutsuk	0.83		4		1.02	2	1.08		65	↘	1.16	24	0.77		24	↘	0.94	12	1.00		13		1.89	5
056	Nechako	2.15	*	19		1.67	9	1.21	*	132	↘	0.98	55	0.98		55	↘	1.01	30	1.41		33		1.24	11
057	Prince George	1.36	*	65		0.67	* 34	1.17	*	691	↘	1.17	* 311	1.08		328	↘	1.18	176	1.32	*	168		1.06	57
059	Peace River South	1.46		24	↗	1.95	18	1.24	*	265	↘	1.35	99	1.43	*	156	↘	1.58	* 68	0.95		45		0.66	7
060	Peace River North	1.08		14		1.48	9	1.06		172	↘	1.13	77	1.14		95	↘	1.48	53	0.57	*	20	↘	0.68	8
061	Greater Victoria	0.84	*	235	↗	1.22	86	0.99		4,130	↘	0.96	672	0.94	*	1,877	↘	0.95	371	1.01		1,011	↘	1.02	134
062	Sooke	0.89		32		0.72	17	0.98		458	↘	0.94	140	0.87	*	206	↘	1.03	86	1.08		113		0.82	21
063	Saanich	0.82		72		0.73	22	0.80	*	984	↘	0.61	* 179	0.70	*	432	↘	0.55	* 101	0.89		254	↘	0.54	* 26
064	Gulf Islands	0.48	*	10		0.70	5	0.79	*	225	↘	0.90	55	0.74	*	105	↘	0.82	32	0.89		57	↘	1.10	12
065	Cowichan	0.70	*	37	↘	0.57	* 12	0.97		694	↘	1.17	205	0.99		356	↘	1.16	113	0.86		139	↘	1.22	34
066	Lake Cowichan	0.19		1		0.09	* 1	0.87		58	↘	1.06	22	0.70		24	↘	0.78	9	1.03		15		1.08	4
067	Ladysmith	1.00		20		0.57	7	1.20	*	326	↘	1.16	87	1.17		159	↘	1.21	46	1.15		71	↘	1.13	16
068	Nanaimo	0.88		84		0.89	25	1.07	*	1,395	↘	1.13	376	1.19	*	776	↘	1.39	* 239	1.02		305	↘	0.94	59
069	Qualicum	0.83		51	↗	0.80	18	0.96		792	↘	1.00	214	0.95		395	↘	1.15	128	0.89		166	↘	0.87	34
070	Alberni	1.25		35	↗	1.11	12	1.16	*	433	↘	1.57	* 164	1.05		199	↘	1.26	86	1.11		93	↘	1.92	* 29
071	Courtenay	1.01		57		0.61	* 22	0.97		726	↘	1.01	209	0.92		350	↘	0.93	112	1.09		185		1.36	51
072/084	Campbell River/V.I. West	1.27		37	↗	1.01	14	1.03		390	↘	1.18	151	0.88		169	↘	1.14	80	1.17		98		1.45	34
075	Mission	1.30		34	↗	2.17	20	1.11	*	386	↘	1.32	* 137	1.12		197	↘	1.35	78	1.00		78		1.35	24
076	Agassiz-Harrison	1.51		10	↗	0.29	* 4	1.23	*	104		1.10	33	1.31		57		1.56	23	1.40		26		0.34	* 5
077	Summerland	1.15		22		0.76	4	0.94		258	↘	0.77	43	1.03		140	↘	0.86	22	0.89		57	↘	0.43	* 8
078	Enderby	0.64		5	↘	1.89	4	1.18		125		1.22	33	1.18		63	↘	1.68	21	1.04		25	↗	0.88	3
080	Kitimat	1.60		9		2.36	6	1.36	*	88		1.15	45	1.25		43	↘	1.37	25	1.58		21		1.70	9
081	Fort Nelson	3.42	*	5		2.20	3	1.01		17		0.86	11	1.23		11		1.26	8	0.60		2		-	-
083	Central Coast	2.66		2		4.45	1	1.57		14		2.47	8	0.64		3		0.86	2	2.19		4		0.28	* 1
085	Vancouver Island North	0.52		3		0.09	* 2	1.33	*	91	↘	1.53	* 52	1.33		48	↘	1.66	30	1.42		20		1.79	12
087/094	Stikine/Telegraph Creek	1.86		2		2.64	2	0.99		14		2.00	7	0.84		6		0.59	1	0.32		1		2.95	1
088	Terrace	1.53		17	↗	1.20	6	1.21	*	166	↘	1.38	70	1.14		81	↘	1.50	37	1.16		34		1.54	14
092	Nisga'a	5.13	*	4		4.03	2	1.44		13		2.24	8	2.08		10		3.42	7	1.08		2		2.54	1
161	Vancouver City Centre	0.79		58	↗	1.00	28	1.09	*	1,138	↘	1.17	313	1.13	*	571	↘	0.98	162	1.11		271		1.31	59
162	Van. Downtown E. Side	1.37	*	64		2.24	* 31	1.17	*	757	↘	2.43	* 346	1.20	*	385	↘	1.83	* 174	1.11		164	↘	3.03	* 68
163	Vancouver North East	1.16		89		0.84	29	0.96		988	↘	0.90	272	0.97		497	↘	0.93	148	1.12		260	↘	0.94	68
164	Vancouver West Side	0.59	*	69		0.35	* 18	0.84	*	1,451	↘	0.62	* 224	0.79	*	653	↘	0.54	* 115	0.95		389	↘	0.76	41
165	Vancouver Midtown	1.20		73		0.78	23	1.02		844	↘	0.93	228	1.03		421	↘	0.83	118	1.14		218	↘	1.14	55
166	Vancouver South	1.00		114		1.03	43	0.92	*	1,481	↘	0.85	* 331	0.93		734	↘	0.77	* 194	1.00		375	↘	0.86	60
	N.S.	-		-		-	-	-		3		-	2	-		1		-	1	-		2		-	1
	PROVINCIAL TOTAL	**1.00**		**3,582**	↗	**1.00**	**1,409**	**1.00**		**49,321**	↘	**1.00**	**12,998**	**1.00**		**24,482**	↘	**1.00**	**7,305**	**1.00**		**11,312**	↘	**1.00**	**2,338**

Please refer to footnotes on page 191

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

		09 Arteries/Arterioles/Capillaries						10 Respiratory System						11 Pneumonia and Influenza						12 Chronic Lung Disease					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
001	Fernie	0.84		6		0.82		2	0.86		33	↘	0.99		10	0.54		9	↘	0.29	*	1	1.17		18		1.35		7
002	Cranbrook	0.91		14	↘	0.17	*	3	1.04		84	↘	1.76		27	1.01		35	↘	1.99		6	1.17		39	↘	1.81		16
003	Kimberley	0.62		5	↘	0.44		1	1.13		49		0.38	*	8	0.69		13		0.28	*	3	1.41		25		0.49		4
004	Windermere	1.01		5		0.77		1	1.05		27	↗	0.75		7	1.14		12	↗	0.83		3	1.01		11		1.23		4
005	Creston	1.29		18		0.65		3	0.79		59		1.09		13	1.01		33		2.33		6	0.68		21		0.80		7
006/007	Kootenay Lake/Nelson	0.83		17	↘	0.56		5	0.72	*	80		0.73		14	0.69	*	34		1.45		6	0.81		36		0.41	*	6
009	Castlegar	1.71		17		2.84		7	0.91		49		1.20		14	0.80		19		2.74		7	0.88		19	↗	0.42	*	5
010	Arrow Lakes	2.01		9		0.24	*	1	1.40		34		2.43		8	1.20		13		5.97		4	1.76	*	17		0.90		3
011	Trail	1.68	*	32	↘	1.40		8	0.91		94		1.04		21	0.84		39		1.59		6	1.08		45		0.86		12
012/013	Grand Forks/Kettle Valley	1.35		15		1.99		8	0.98		57	↗	1.29		14	0.95		23		2.54		5	0.77		19	↗	0.76		6
014	Southern Okanagan	1.13		29	↘	0.51		5	0.99		135		1.10		28	1.11		64		1.51		6	0.87		50		0.90		15
015	Penticton	1.11		56		2.25		17	0.92		251		1.10		47	0.81	*	98		0.92		14	1.06		118	↗	1.41		24
016	Keremeos	0.91		5	↘	1.06		1	0.73		21	↘	1.43		9	0.42	*	5	↘	0.59		2	1.14		14		0.53	*	5
017	Princeton	1.24		5		1.69		2	1.60	*	33		1.86		10	1.57		13	↘	0.44		1	1.76	*	16		2.97		7
018	Golden	0.35		1		-		-	1.06		16	↘	1.09		7	0.80		5	↘	0.63		1	1.44		9		1.48		4
019	Revelstoke	1.39		6		3.43		3	1.15		26		0.42	*	5	1.35		13		0.31	*	1	1.07		10		0.87		4
020	Salmon Arm	1.38		40	↘	1.43		19	0.82	*	127		0.63	*	28	0.79		52		0.65		8	0.94		81		0.79		15
021	Armstrong-Spallumcheen	0.95		7	↘	0.15	*	1	0.76		30	↘	0.59		7	0.70		12	↘	0.09	*	1	0.87		14		1.40		5
022	Vernon	1.38	*	71	↘	2.02		21	0.96		266	↘	0.77		53	0.94		112	↘	0.65		11	0.99		112		1.15		35
023	Central Okanagan	0.93		129		0.80		25	0.94		697		0.86		129	0.95		310		0.78		34	0.93		283		0.84		70
024	Kamloops	1.21		73	↘	1.30		21	1.20	*	379		1.52	*	121	0.94		124		1.46		31	1.42	*	188	↗	1.38		63
025	100 Mile House	1.15		10		1.52		5	1.12		49		0.93		16	1.00		17		0.57		5	1.28		25		1.18		9
026	North Thompson	1.99		4		1.50		3	0.58		6	↘	0.06	*	1	0.49		2		-		-	0.68		3		0.18	*	1
027	Cariboo-Chilcotin	0.81		9	↘	1.36		6	1.09		63	↘	1.37		22	0.92		22	↘	1.19		5	1.21		29		1.92		13
028	Quesnel	1.22		15		1.33		6	1.39	*	89		1.70		35	1.10		29		1.60		8	1.81	*	49		2.65	*	23
029	Lillooet	1.84		4		1.60		1	1.69	*	19		2.67		10	1.52		7		2.03		3	2.10	*	10		2.47		5
030	South Cariboo	1.20		6		2.18		2	1.81	*	46		3.00		18	1.17		12		0.40		2	2.71	*	30	↗	3.80	*	13
031	Merritt	0.61		4	↘	0.13	*	1	1.36		47		2.70	*	23	1.30		19		5.10		10	1.52		22		1.65		8
032	Hope	1.36		9		1.46		2	1.04		36	↘	0.94		8	1.10		16		0.28	*	1	1.02		15	↘	1.02		3
033	Chilliwack	0.85		47	↘	0.59	*	16	1.03		306		1.42		79	0.98		125		1.71		21	1.07		131		1.28		43
034	Abbotsford	0.97		83		0.80		23	0.92		431		0.85		69	0.96		199		1.06		20	0.94		177	↗	0.65	*	32
035	Langley	0.89		63		0.94		13	0.98		372		1.03		78	1.11		183		0.90		25	0.86		134	↘	0.91		35
036	Surrey	0.98		221	↘	0.80		51	0.85	*	1,028	↘	0.87		231	0.82	*	434	↘	0.86		62	0.84	*	413	↘	0.81		113
037	Delta	1.12		64		0.83		13	0.81	*	249		0.41	*	44	0.71	*	94		0.34	*	12	0.86		107	↘	0.55	*	21
038	Richmond	0.80		73	↘	1.31		31	0.88	*	435		0.49	*	70	0.93		200		0.39	*	21	0.81	*	160	↘	0.38	*	28
040	New Westminster	1.19		51	↘	1.78		12	1.20	*	284		1.37		57	1.31	*	143		1.58		20	1.01		92		1.10		24
041	Burnaby	0.93		124	↘	0.72		24	1.02		736		0.68	*	137	1.16	*	375		0.57	*	40	0.91		262		0.75	*	66
042	Maple Ridge	1.11		44	↘	0.85		15	1.07		226	↘	1.12		67	1.01		91	↘	0.97		20	1.26	*	109		1.20		36
043	Coquitlam	0.91		72	↘	0.52	*	21	1.15	*	487	↘	0.98		141	1.14		207	↘	0.77		39	1.22	*	208	↘	1.23		76
044	North Vancouver	1.01		81	↘	0.59	*	18	1.08		464	↘	0.97		96	1.14		214	↘	0.95		24	1.02		177		0.97		55
045	West Van.-Bowen Is.	0.60	*	34	↘	0.73		5	0.96		299		0.46	*	32	1.25	*	176		0.79		11	0.75	*	92		0.47	*	19
046	Sunshine Coast	0.90		21		1.55		7	1.08		134		1.25		33	1.15		61		1.13		12	0.91		47		1.03		15
047	Powell River	1.07		18	↘	1.35		5	0.89		81		0.95		17	1.01		40		1.08		7	0.79		29		0.64		8
048	Howe Sound	1.02		8		2.07		5	1.28		52		0.70		15	1.34		22		0.47	*	6	1.54	*	26		0.88		7
049	Bella Coola Valley	0.86		1		1.53		1	0.85		5	↘	0.10	*	1	0.43		1		-		-	1.57		4		0.32	*	1
050	Queen Charlotte	1.08		2		-		-	1.24		12	↗	1.73		7	1.94		8		3.76		4	-		-		-		-
051	Snow Country	-		-		-		-	-		-		-		-	-		-		-		-	-		-		-		-
052	Prince Rupert	1.06		7	↘	2.60		7	1.16		40	↘	0.53	*	9	1.10		16	↘	0.84		3	1.19		17		0.60		5
053	Upper Skeena	-		-		-		-	1.82	*	16	↗	2.36		3	2.27		8	↗	0.53		1	1.60		6		-		-
054	Smithers	1.06		6	↘	0.74		3	1.38		40	↗	1.10		12	0.84		10		0.44		2	1.56		19	↗	1.39		6
055/093	Burns Lake/Eutsuk	1.46		5		0.82		2	1.03		18		0.60		6	1.14		8		0.60		1	1.32		10		1.10		5
056	Nechako	0.99		6		0.71		3	1.06		33		1.13		17	0.72		9		1.43		4	1.43		19		1.64		10
057	Prince George	1.11		38	↘	1.20		17	1.43	*	239		1.14		73	1.29	*	88	↘	1.14		21	1.74	*	122	↗	1.25		37
059	Peace River South	1.01		12		1.18		7	1.42	*	89		1.66		28	1.46	*	39		2.51		9	1.59	*	41	↘	1.26		15
060	Peace River North	1.68		15		1.40		5	1.04		48		1.03		14	0.83		16		1.52		5	1.30		25		0.93		7
061	Greater Victoria	0.96		219	↘	0.93		32	0.98		1,246	↘	1.03		172	0.92		548	↘	1.01		45	1.02		494		1.13		90
062	Sooke	1.34		35	↘	0.98		10	0.94		129	↘	0.83		33	0.62	*	36	↘	0.08	*	3	1.09		62		1.30		19
063	Saanich	1.27	*	89		1.09		16	0.81	*	306	↘	0.66	*	46	0.77	*	126	↘	0.27	*	8	0.75	*	118		0.49	*	24
064	Gulf Islands	0.50	*	8		0.83		1	0.70	*	60		0.24	*	7	0.69		25		-		-	0.67	*	24		0.42	*	5
065	Cowichan	1.02		41	↘	0.43		6	1.06		226		1.25		61	1.15		104		1.34		20	0.96		86		1.05		28
066	Lake Cowichan	1.06		4		3.02		4	1.08		21	↗	2.78		8	0.76		6		6.16		2	1.67		14	↗	1.69		6
067	Ladysmith	1.75	*	27	↘	1.56		10	1.14		93	↗	1.61		25	1.23		43		1.38		8	0.88		30	↗	1.86		11
068	Nanaimo	1.12		82	↘	0.81		16	0.89	*	350	↘	1.18		100	0.80	*	135	↘	0.82		22	0.93		150		1.13		53
069	Qualicum	1.01		48	↘	0.70		14	0.92		230		0.94		46	0.89		92		0.91		13	0.90		96		0.59	*	20
070	Alberni	1.19		25	↘	2.04		10	0.91		101		0.89		29	0.79		37	↘	0.80		8	0.96		44		1.01		16
071	Courtenay	0.78		33	↘	0.49		5	0.98		220		0.88		50	0.71	*	67		0.39	*	7	1.31	*	123	↗	1.27		34
072/084	Campbell River/V.I. West	1.43		30	↘	0.68		7	0.94		103	↘	1.00		32	0.69	*	32		0.80		5	1.11		51		1.02		17
075	Mission	1.08		21		1.64		6	1.36	*	141	↗	1.92	*	42	1.18		52	↗	2.34		13	1.53	*	65		1.94		20
076	Agassiz-Harrison	0.42		2		1.02		2	1.21		30		1.36		6	1.68		17		0.10	*	1	0.47		5		0.57		2
077	Summerland	0.84		13		0.11	*	1	0.85		72		0.69		8	0.88		33		-		-	0.85		29		0.94		5
078	Enderby	1.50		9		0.74		2	1.06		34		3.40		16	1.09		15		5.85		4	1.14		15		3.00		10
080	Kitimat	0.83		3		0.13	*	1	1.06		19	↘	0.86		9	0.90		6	↘	1.26		5	1.25		10	↗	0.42		1
081	Fort Nelson	2.20		2		4.80		2	0.86		4	↘	1.61		3	1.07		2		3.26		2	1.07		2		0.97		1
083	Central Coast	-		-		-		-	2.76	*	7		3.29		4	6.00	*	6		3.79		3	-		-		-		-
085	Vancouver Island North	0.54		2		1.79		1	1.02		19	↗	0.79		6	0.40		3		0.58		1	1.42		11	↗	1.02		3
087/094	Stikine/Telegraph Creek	1.33		1		-		-	1.24		5		2.23		1	2.27		4		-		-	0.63		1		6.57		1
088	Terrace	0.78		6		0.08	*	1	1.96	*	77	↗	1.55		30	2.34	*	37		1.54		8	1.55	*	26	↗	2.26		15
092	Nisga'a	-		-		-		-	1.97		5		0.82		2	2.16		2		-		-	0.86		1		0.67		1
161	Vancouver City Centre	1.11		62	↘	1.77		23	1.19	*	368		1.28		81	1.26	*	179		1.90		32	1.12		132	↗	1.36		37
162	Van. Downtown E. Side	1.04		37	↘	2.61		19	1.38	*	264		3.83	*	120	1.16		99		4.42	*	44	1.61	*	123		3.49	*	50
163	Vancouver North East	0.85		49	↘	0.40	*	4	0.92		281		0.47	*	49	1.07		141		0.42	*	17	0.78	*	98		0.55	*	23
164	Vancouver West Side	0.70	*	65	↘	0.71		15	1.10	*	569		0.56	*	74	1.35	*	327	↘	0.65	*	25	0.79	*	155		0.41	*	31
165	Vancouver Midtown	0.84		38	↘	0.92		9	1.20	*	297		1.10		65	1.25	*	137	↘	0.77		21	1.13		111		1.11		26
166	Vancouver South	0.78	*	69	↘	1.11		17	0.90	*	434		0.67	*	73	1.00		218		0.81		26	0.77	*	147		0.61	*	32
	N.S.	-		-		-		-	-		-		-		-	-		-		-		-	-		-		-		-
	PROVINCIAL TOTAL	**1.00**		**2,735**	↘	**1.00**		**718**	**1.00**		**14,737**	↘	**1.00**		**3,247**	**1.00**		**6,458**	↘	**1.00**		**924**	**1.00**		**5,958**		**1.00**		**1,637**

Please refer to footnotes on page 191

Table B

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1998-2002

		13 Digestive System						14 Motor Vehicle Accidents						15 Accidental Falls						16 Suicide					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	0.95		15		0.31	* 8	1.89	*	14		1.78	12	1.07		5		2.14	2	1.03		9		0.83	8
002	Cranbrook	0.99		31	↘	1.36	21	1.22		15		1.03	13	0.86		8		1.95	4	1.65	*	23		1.34	22
003	Kimberley	1.24		19	↗	0.85	8	0.68		3	↘	1.04	3	1.03		5		0.61	1	0.58		3		0.65	3
004	Windermere	0.85		9		0.66	3	2.04		9		2.90	9	-		-		-	-	1.17		6		1.28	6
005	Creston	1.06		27	↘	0.49	* 7	2.21	*	14		2.14	11	1.11		9	↘	-	-	1.85		13	↗	2.62	* 13
006/007	Kootenay Lake/Nelson	0.55	*	22		0.61	10	2.44	*	34		2.56	* 30	1.40		18		-	-	1.12		18		0.94	18
009	Castlegar	1.34		26		1.52	13	2.40	*	16		2.70	* 16	1.93		12	↗	1.43	2	1.32		10		1.55	9
010	Arrow Lakes	1.25		11		2.40	6	3.56	*	9		4.85	* 7	1.78		5		-	-	0.34		1		0.35	1
011	Trail	1.04		37	↘	0.93	16	1.26		13		1.34	12	1.28		15		2.06	4	1.73	*	20	↗	1.93	* 19
012/013	Grand Forks/Kettle Valley	1.39		30		1.68	17	2.50	*	16		2.57	* 14	1.43		9	↗	-	-	1.21		9	↘	0.66	8
014	Southern Okanagan	1.04		47		1.63	27	1.97	*	19		1.98	14	1.13		16		2.61	5	1.51		16	↗	1.52	12
015	Penticton	1.17		103		0.99	34	1.16		24	↘	1.25	20	1.01		30		2.37	6	1.06		24	↘	1.37	23
016	Keremeos	1.10		11		2.32	7	4.54	*	11		6.25	* 10	0.67		2		-	-	1.07		3		1.85	3
017	Princeton	1.37		11		0.76	3	3.04	*	7	↘	2.89	4	0.93		2		1.33	2	1.75		5		3.11	5
018	Golden	0.46		3		0.55	2	2.78	*	10	↗	3.00	10	0.54		1		2.94	1	0.48		2		0.50	2
019	Revelstoke	1.29		12		0.68	5	3.19	*	13		3.54	* 13	2.60	*	7		2.99	2	0.63		3		0.97	3
020	Salmon Arm	0.91		50		0.67	20	2.16	*	34	↘	2.47	* 31	0.96		16		0.84	4	0.67		12		0.47	* 8
021	Armstrong-Spallumcheen	0.77		11		0.11	* 2	2.95	*	14	↘	3.26	* 12	0.90		4		-	-	1.13		6		1.80	6
022	Vernon	1.06		103		1.06	42	1.47	*	43	↘	1.58	* 36	0.79		24		0.53	6	1.04		34		0.97	29
023	Central Okanagan	0.85	*	219		0.97	83	0.74	*	56	↘	0.66	* 44	1.03		85	↘	0.99	22	1.04		88		1.05	78
024	Kamloops	1.19	*	147		1.34	81	1.68	*	84	↘	1.65	* 74	1.65	*	59		1.93	22	1.20		68		1.30	64
025	100 Mile House	1.78	*	33		2.34	* 22	2.41	*	17	↘	2.51	* 17	2.13	*	10	↗	3.09	4	1.42		12		1.83	12
026	North Thompson	1.95		9		2.29	7	4.18	*	10		3.69	* 9	0.82		1		1.44	1	1.43		4		0.71	4
027	Cariboo-Chilcotin	1.17		30	↘	1.82	23	2.86	*	39	↘	2.98	* 39	1.42		10		1.46	4	1.67	*	26		1.78	25
028	Quesnel	1.22		32	↘	1.20	19	2.60	*	32		2.40	* 29	2.03	*	15	↗	0.29	* 3	0.71		10	↘	0.55	* 10
029	Lillooet	1.89		9	↘	1.28	4	5.75	*	13		5.17	* 12	2.29		3		0.67	1	1.16		3	↘	0.96	2
030	South Cariboo	2.32	*	24		3.35	* 17	2.16		8	↘	1.97	6	0.72		2		2.20	2	1.38		6	↘	1.10	5
031	Merritt	1.34		18		1.26	10	3.28	*	18		2.87	* 15	1.77		7		2.09	2	2.27	*	14		2.75	* 14
032	Hope	1.92	*	25	↗	2.22	11	2.15		9		1.72	7	0.79		3		1.39	1	1.26		6	↘	0.94	6
033	Chilliwack	1.10		115	↘	1.04	44	1.27		44	↘	1.40	41	0.98		32		2.07	13	1.03		39		0.90	35
034	Abbotsford	0.86		139	↘	0.81	54	1.04		61	↘	1.13	59	0.52	*	28		0.32	* 6	0.91		57		1.01	55
035	Langley	0.98		137		0.93	66	0.98		54	↘	0.98	49	0.80		35	↘	0.48	* 6	0.62	*	38		0.70	* 36
036	Surrey	0.87	*	389	↘	0.90	187	0.95		170	↘	0.99	154	0.63	*	88	↘	0.67	21	0.89		179	↘	0.90	166
037	Delta	0.81	*	96	↘	0.70	* 47	0.54	*	26	↘	0.48	* 21	0.61	*	22		0.06	* 2	0.71	*	39		0.68	* 37
038	Richmond	0.74	*	142	↘	0.45	* 49	0.52	*	43	↘	0.56	* 36	0.81		47		0.48	* 10	0.54	*	51	↘	0.45	* 46
040	New Westminster	1.07		89	↘	1.45	46	0.60	*	17	↘	0.50	* 14	0.91		26	↘	0.56	5	1.26		42	↘	1.12	40
041	Burnaby	1.00		262		0.75	* 100	0.56	*	57	↘	0.50	* 48	0.87		74	↘	1.02	18	0.70	*	79		0.62	* 70
042	Maple Ridge	0.75	*	62	↘	0.48	* 20	0.94		35	↘	0.98	32	0.68		17		0.67	6	1.22		52	↘	1.20	51
043	Coquitlam	0.89		159	↘	0.80	81	0.51	*	47	↘	0.54	* 43	0.88		46	↘	0.40	* 12	0.72	*	77	↘	0.72	* 74
044	North Vancouver	0.91		148	↘	0.80	62	0.52	*	33	↘	0.54	* 29	0.82		41	↘	0.75	10	0.74	*	55	↘	0.70	* 48
045	West Van.-Bowen Is.	0.88		91	↗	0.47	* 21	0.43	*	11	↘	0.44	* 8	0.80		28	↘	1.75	6	0.64		18	↘	0.53	* 12
046	Sunshine Coast	0.91		41		1.26	23	0.55		7	↘	0.65	6	1.03		14		1.30	3	1.13		17		1.35	17
047	Powell River	0.58	*	19	↘	0.48	* 7	0.40		4	↘	0.53	4	1.37		14		1.13	3	0.87		10		0.77	8
048	Howe Sound	0.87		17		0.79	10	1.75	*	26	↘	1.69	* 25	1.31		7	↗	1.34	3	1.48		25		1.32	22
049	Bella Coola Valley	1.83		5		3.88	3	6.20	*	10		5.71	* 10	-		-		-	-	1.63		3		1.58	3
050	Queen Charlotte	2.04		9		1.25	6	0.82		2	≡	0.88	2	2.42		3		2.36	2	4.38	*	13		3.80	* 13
051	Snow Country	-		-		-	-	13.58	*	5		14.19	* 5	-		-		-	-	-		-		-	-
052	Prince Rupert	1.49		22		1.12	12	1.00		8	↘	0.93	8	1.89		8	↗	1.95	3	1.75		16	↗	2.13	* 16
053	Upper Skeena	2.01		8		2.90	7	3.05	*	8	↘	3.24	8	-		-		-	-	1.37		4		2.10	4
054	Smithers	1.19		16		0.96	10	2.28	*	19	↘	2.69	* 19	0.27		1		-	-	0.96		9	↘	0.75	8
055/093	Burns Lake/Eutsuk	2.04	*	15	↗	2.50	10	3.51	*	13	↘	3.83	* 13	0.50		1		-	-	1.22		5	↘	1.18	5
056	Nechako	0.86		12		1.52	10	2.92	*	24	↘	3.07	* 22	1.32		5		0.37	* 2	1.43		13		1.57	13
057	Prince George	1.27	*	99	↘	1.10	63	1.84	*	88	↘	1.51	* 81	0.91		19	↘	0.44	* 6	1.12		61	↘	1.23	59
059	Peace River South	0.78		20	↘	0.71	9	2.73	*	35		2.64	* 34	1.47		11		0.20	* 3	0.83		12		0.94	12
060	Peace River North	1.10		23		1.34	15	2.01	*	29	↘	1.85	* 29	1.01		6		1.52	3	0.64		10	↘	0.80	10
061	Greater Victoria	0.99		403	↘	0.90	121	0.41	*	45	↘	0.36	* 33	1.36	*	202		1.04	19	1.19	*	142		1.11	123
062	Sooke	0.79		44	↘	0.81	26	0.40	*	10	↘	0.46	* 10	1.31		21		1.14	6	1.02		30	↘	0.99	28
063	Saanich	0.57	*	71	↘	0.59	* 21	0.42	*	13		0.47	* 11	0.74		30	↘	0.41	* 6	0.91		32		1.03	26
064	Gulf Islands	1.00		30		1.19	14	0.57		4	↘	0.48	3	1.76	*	16		5.18	5	0.60		5	↘	0.82	5
065	Cowichan	1.22		94		1.66	* 52	1.03		26	↘	1.34	23	1.07		25		1.50	7	1.40		40		1.62	* 35
066	Lake Cowichan	1.80		14		1.31	8	1.68		5		2.32	5	-		-		-	-	1.15		4		1.07	3
067	Ladysmith	1.28		37		1.45	19	1.11		9	↘	1.46	8	1.25		11		0.55	2	1.20		11		1.40	11
068	Nanaimo	0.97		136		1.18	67	0.70	*	32	↘	0.71	28	1.12		49		0.58	6	1.36	*	70		1.39	* 66
069	Qualicum	0.72	*	62		0.55	* 21	1.25		25		1.36	20	1.25		32		1.03	5	0.57	*	13	↘	0.48	* 11
070	Alberni	1.23		52		1.21	23	0.96		15		1.00	13	1.12		14	↘	0.91	3	1.52		27		1.81	* 26
071	Courtenay	1.13		94		0.92	37	1.04		29	↘	1.23	25	1.05		26		1.09	7	1.18		38		1.28	37
072/084	Campbell River/V.I. West	1.06		48	↗	0.98	29	0.79		16	↘	0.92	16	0.93		12		0.22	* 5	1.01		24		0.95	22
075	Mission	1.16		46		0.79	23	0.97		17	↘	0.69	12	1.42		17		0.89	6	1.15		23		1.00	22
076	Agassiz-Harrison	1.83	*	18		3.05	11	2.26	*	9		2.38	8	1.09		3		2.20	1	0.65		3		0.65	3
077	Summerland	1.33		36		0.79	9	0.84		5	↘	0.90	3	1.53		14		5.16	4	1.07		7		1.39	6
078	Enderby	1.05		12		0.77	5	3.08	*	11		3.18	* 10	1.99		7		0.61	2	1.00		4		0.98	4
080	Kitimat	1.52		14	↘	1.89	11	1.41		8		1.64	7	0.46		1		0.26	* 1	0.76		5	↘	0.91	5
081	Fort Nelson	0.75		2		0.82	2	2.75	*	8		3.00	8	1.37		1		-	-	1.25		4		1.14	4
083	Central Coast	7.36	*	9		8.45	* 8	1.20		1		1.60	1	-		-		-	-	2.12		2	↘	3.24	2
085	Vancouver Island North	2.02	*	20		1.53	14	1.22		8	↘	1.25	7	1.60		4		1.08	1	2.05	*	16		2.19	* 16
087/094	Stikine/Telegraph Creek	0.57		1		0.14	* 1	2.31		2		2.99	2	1.95		1		6.20	1	5.85	*	6		7.68	* 6
088	Terrace	1.36		24		1.62	15	1.83	*	19		1.84	17	1.47		7		0.14	* 1	1.28		15		1.16	15
092	Nisga'a	2.43		3		0.52	1	3.25		3		0.27	* 2	-		-		-	-	1.02		1		1.62	1
161	Vancouver City Centre	1.50	*	170	↗	1.49	* 82	0.46	*	23	↘	0.29	* 18	1.07		41		2.79	* 19	1.39	*	84		1.16	77
162	Van. Downtown E. Side	2.03	*	143	↘	3.93	* 107	1.15		31	↘	0.91	26	1.68	*	38	↘	5.26	* 27	2.33	*	78	↘	2.33	* 78
163	Vancouver North East	1.15		132		1.09	62	0.71	*	34	↘	0.71	* 29	1.14		40		0.36	* 6	0.70	*	38	↘	0.72	* 37
164	Vancouver West Side	0.78	*	139	↘	0.53	* 35	0.49	*	31	↘	0.38	* 24	0.84		53		1.11	11	0.71	*	50	↘	0.72	* 45
165	Vancouver Midtown	1.30	*	121		0.97	47	0.63	*	27	↘	0.42	* 21	0.81		24	↘	1.33	10	1.01		50	↘	1.01	46
166	Vancouver South	0.81	*	139	↘	0.89	56	0.70	*	44	↘	0.55	* 35	0.95		54	↘	0.96	18	0.69	*	48	↘	0.68	* 46
	N.S.	-		-		-	-	-		1		-	1	-		-		-	-	-		4		-	4
	PROVINCIAL TOTAL	**1.00**		**5,373**	↘	**1.00**	**2,417**	**1.00**		**1,991**	↘	**1.00**	**1,755**	**1.00**		**1,699**	↘	**1.00**	**423**	**1.00**		**2,252**	↘	**1.00**	**2,088**

Please refer to footnotes on page 191

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

		17 Alcohol-related Deaths						18 Medically Treatable Disease						19 Drug-induced Deaths					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	1.14		36	↗	0.89	29	0.39		1		0.58	1	0.22	*	2		0.23	* 2
002	Cranbrook	1.25		71	↗	1.26	58	1.71		7		1.88	7	0.51		7		0.62	7
003	Kimberley	1.52	*	37	↗	1.03	27	0.67		1		0.70	1	0.62		3		0.40	3
004	Windermere	1.10		23	↗	1.14	16	1.96		3		2.10	3	0.20		1		0.02	* 1
005	Creston	1.29		50	↗	1.99	* 41	0.99		2		0.79	2	0.81		5		1.07	5
006/007	Kootenay Lake/Nelson	1.27	*	86	↗	1.37	63	1.06		5		1.42	5	0.96		15		0.81	14
009	Castlegar	1.36		44	↗	1.35	32	1.35		3		1.29	3	0.95		7		1.01	7
010	Arrow Lakes	1.55		22	↗	1.60	17	2.19		2		2.79	2	0.72		2		0.40	1
011	Trail	1.31	*	70	↗	1.22	44	0.60		2		0.66	2	0.99		11	↗	0.89	11
012/013	Grand Forks/Kettle Valley	1.20		45	↗	1.92	* 40	0.46		1		0.76	1	0.59		4		0.30	* 4
014	Southern Okanagan	1.23		82	↗	1.31	56	0.70		2		1.22	2	1.25		11	↗	1.33	11
015	Penticton	1.24	*	153	↗	1.62	* 114	0.16	*	1		0.20	* 1	0.98		20		1.01	20
016	Keremeos	1.03		17	↗	1.70	15	1.22		1		1.64	1	0.83		2		1.05	2
017	Princeton	1.60	*	24	↗	2.81	* 20	-		-		-	-	0.78		2		0.90	2
018	Golden	1.21		17	↗	1.78	15	1.71		2		1.91	2	-		-		-	-
019	Revelstoke	1.40		25	↗	1.05	18	-		-		-	-	0.21		1		0.24	* 1
020	Salmon Arm	0.87		78	↗	0.80	51	0.77		4		0.44	* 4	0.31	*	5		0.29	* 5
021	Armstrong-Spallumcheen	0.88		21	↗	1.04	17	-		-		-	-	-		-		-	-
022	Vernon	1.12		172	↗	1.24	129	0.75		7		0.76	7	1.10		34	↗	1.23	33
023	Central Okanagan	0.92		367	↗	1.14	274	0.63		15		0.77	15	0.99		80	↗	0.97	75
024	Kamloops	1.24	*	286	↗	1.49	* 234	1.26		21		1.33	21	1.19		66	↗	1.32	65
025	100 Mile House	1.45	*	56	↗	1.90	* 49	1.52		4		1.92	4	1.52		12	↗	1.74	12
026	North Thompson	1.27		13	↗	1.34	11	1.19		1		0.54	1	0.36		1		0.53	1
027	Cariboo-Chilcotin	1.63	*	90	↗	1.80	* 75	0.87		4		0.73	4	0.57		9		0.69	9
028	Quesnel	1.11		59	↗	0.98	47	1.45		6		1.76	6	0.93		13		0.81	13
029	Lillooet	3.46	*	34	↗	2.66	* 26	2.63		2		3.99	2	0.77		2		1.00	2
030	South Cariboo	1.78	*	36		2.25	* 31	-		-		-	-	0.49		2		0.23	* 1
031	Merritt	2.03	*	51	↗	2.30	* 43	2.21		4		2.59	4	1.32		8		1.43	8
032	Hope	1.84	*	42	↗	2.09	* 31	0.71		1		0.48	1	1.34		6		1.56	6
033	Chilliwack	0.94		160	↗	0.86	107	1.43		15	↗	1.64	15	0.98		36		0.87	34
034	Abbotsford	0.60	*	153	↗	0.63	* 123	1.30		22		1.22	22	1.02		63	↗	1.00	61
035	Langley	0.70	*	170	↗	0.65	* 127	1.36		24		1.54	24	0.61	*	38	↗	0.64	* 37
036	Surrey	0.73	*	562	↗	0.81	* 445	1.12		64		0.98	64	1.08		219	↗	1.15	213
037	Delta	0.56	*	121	↗	0.49	* 88	0.49	*	8		0.34	* 8	0.48	*	26	↗	0.46	* 25
038	Richmond	0.48	*	165	↗	0.36	* 120	0.50	*	14		0.47	* 14	0.32	*	31		0.28	* 28
040	New Westminster	1.26	*	160	↗	1.16	124	1.96	*	18		2.04	* 18	1.85	*	65		1.75	* 63
041	Burnaby	0.77	*	333	↗	0.61	* 233	0.89		28		0.74	28	0.75	*	86	↗	0.74	* 82
042	Maple Ridge	0.77	*	120	↗	0.53	* 86	0.89		11		0.84	11	0.93		41		0.92	40
043	Coquitlam	0.74	*	264	↗	0.58	* 203	0.60	*	19		0.61	* 19	0.60	*	67	↗	0.62	* 66
044	North Vancouver	0.80	*	230	↗	0.61	* 159	0.90		20		0.93	20	0.58	*	44		0.56	* 42
045	West Van.-Bowen Is.	0.52	*	76	↗	0.41	* 42	0.82		7		0.94	7	0.47	*	12		0.52	* 11
046	Sunshine Coast	1.10		82	↗	0.95	56	1.11		5		1.26	5	1.14		16		1.30	16
047	Powell River	1.42	*	76	↗	1.47	56	2.06		7		1.70	7	1.19		13		1.06	12
048	Howe Sound	1.01		49		1.03	42	0.89		4		0.90	4	0.82		15	↗	0.76	14
049	Bella Coola Valley	2.09	*	13		2.13	12	3.85		2		3.98	2	-		-		-	-
050	Queen Charlotte	2.82	*	28	↗	2.42	* 26	1.15		1		1.31	1	1.29		4		1.07	4
051	Snow Country	2.07		3		3.29	3	-		-		-	-	-		-		-	-
052	Prince Rupert	2.12	*	66	↗	2.25	* 60	1.53		4		0.92	4	0.95		9		0.91	9
053	Upper Skeena	3.41	*	32	↗	2.84	* 23	-		-		-	-	1.31		4		1.82	4
054	Smithers	1.18		36	↗	1.14	31	0.37		1		0.72	1	0.20	*	2		0.26	* 2
055/093	Burns Lake/Eutsuk	1.30		20	↗	1.39	17	0.85		1		0.68	1	-		-		-	-
056	Nechako	1.45	*	45	↗	1.23	37	0.38		1		0.76	1	0.21	*	2		0.12	* 1
057	Prince George	1.11		198	↗	0.99	171	1.63	*	26		1.38	26	0.87		49	↗	0.90	48
059	Peace River South	1.47	*	76	↗	1.46	* 65	1.43		6		1.69	6	0.60		9		0.62	9
060	Peace River North	1.06		51	↗	0.97	45	1.39		6		1.46	6	0.30	*	5		0.17	* 4
061	Greater Victoria	1.23	*	661	↗	1.16	* 439	1.03		33		1.12	33	1.67	*	195	↗	1.63	* 186
062	Sooke	0.94		102	↗	0.86	85	0.91		8		0.72	8	0.62	*	19		0.69	18
063	Saanich	0.70	*	131	↗	0.48	* 64	0.70		7	↘	0.98	7	0.57	*	18	↗	0.42	* 12
064	Gulf Islands	1.15		54	↗	1.25	35	0.39		1		0.20	* 1	0.28	*	2		0.46	2
065	Cowichan	1.06		138	↗	1.21	106	0.72		6		0.82	6	0.77		21		0.81	19
066	Lake Cowichan	1.38		21	↗	1.62	19	0.97		1		1.53	1	1.50		5		1.07	4
067	Ladysmith	1.40	*	65	↗	1.57	* 48	1.14		3		1.05	3	0.47		4		0.42	* 4
068	Nanaimo	1.07		247	↗	1.23	* 193	0.81		12	↘	0.78	12	1.17		58	↗	1.21	57
069	Qualicum	0.57	*	78	↗	0.55	* 50	1.07		7		1.01	7	0.46	*	9		0.51	* 8
070	Alberni	1.72	*	131	↗	1.45	* 96	0.96		5	↘	0.90	5	0.99		17	↗	1.05	17
071	Courtenay	0.96		139	↗	0.82	92	0.73		7		0.75	7	0.84		26	↗	0.84	23
072/084	Campbell River/V.I. West	1.64	*	148	↗	1.58	* 118	0.85		6		0.86	6	1.31		31	↗	1.40	30
075	Mission	0.76	*	57	↗	0.71	* 50	1.40		8		1.37	8	1.23		25	↗	1.18	25
076	Agassiz-Harrison	0.99		19		1.10	14	1.60		2		1.90	2	1.55		7		1.39	7
077	Summerland	0.75		28		0.70	18	1.67		3		2.00	3	0.52		3		0.59	3
078	Enderby	1.37		26	↗	1.85	22	0.86		1		0.88	1	1.07		4		1.06	4
080	Kitimat	1.02		23	↗	1.04	20	1.02		2		0.71	2	0.89		6		0.64	5
081	Fort Nelson	0.88		7		0.73	7	1.17		1		1.18	1	0.28		1		0.22	* 1
083	Central Coast	5.31	*	16		7.49	* 16	3.81		1		4.80	1	-		-		-	-
085	Vancouver Island North	2.07	*	52	↗	1.81	* 46	2.14		5		2.35	5	1.11		9	↗	0.93	9
087/094	Stikine/Telegraph Creek	5.23	*	19	↗	6.86	* 17	3.23		1		2.63	1	-		-		-	-
088	Terrace	1.40	*	56	↗	1.40	51	0.89		3		0.73	3	0.83		10		0.75	10
092	Nisga'a	3.84	*	12	↗	3.85	* 11	3.77		1		1.58	1	-		-		-	-
161	Vancouver City Centre	1.59	*	312	↗	1.52	* 248	1.09		17	↘	1.04	17	1.76	*	118		1.56	* 118
162	Van. Downtown E. Side	3.96	*	502	↗	4.93	* 460	4.05	*	35		4.02	* 35	7.38	*	260		7.36	* 259
163	Vancouver North East	0.85	*	175	↗	0.77	* 142	1.39		21		1.36	21	1.06		59		1.00	56
164	Vancouver West Side	0.52	*	139	↗	0.47	* 98	0.31	*	6	↘	0.34	* 6	0.54	*	39		0.52	* 34
165	Vancouver Midtown	1.00		169	↗	0.87	128	0.65		9	↘	0.56	* 9	1.31	*	70		1.20	67
166	Vancouver South	0.65	*	178	↗	0.63	* 129	0.76		15		0.69	15	0.69	*	48		0.73	* 46
	N.S.	-		2	-	-	2	-		-		-	-	-		3		-	3
	PROVINCIAL TOTAL	**1.00**		**9,103**	↗	**1.00**	**6,948**	**1.00**		**643**	↘	**1.00**	**643**	**1.00**		**2,254**	↗	**1.00**	**2,173**

Please refer to footnotes on page 191

TABLE C
SUMMARY STATISTICS BY HEALTH SERVICE DELIVERY AREA
BRITISH COLUMBIA, 1998-2002

	Health Service Delivery Area	2002 Population	Live Birth Total	Live Birth Rate	Stillbirth Total	Stillbirth Rate[2]	Death Total	Death Rate	Infant Death Total	Infant Death Rate[1]
11	East Kootenay	80,208	3,486	8.81	10	2.86	2,706	6.84	8	2.29
12	Kootenay Boundary	79,576	3,260	8.10	25	7.61	3,410	8.47	16	4.91
13	Okanagan	311,878	13,148	8.53	85	6.42	14,112	9.16	48	3.65
14	Thompson Cariboo Shuswap	216,584	9,847	9.12	56	5.65	7,632	7.07	48	4.87
21	North Fraser	254,260	14,850	12.08	113	7.55	8,981	7.31	61	4.11
22	West Fraser	552,574	28,469	10.68	198	6.91	15,989	6.00	95	3.34
23	Central Fraser	614,382	35,732	12.05	236	6.56	17,042	5.75	150	4.20
31	Richmond	174,617	7,942	9.37	52	6.50	4,029	4.76	33	4.16
32	Vancouver	591,607	28,309	9.79	222	7.78	19,747	6.83	117	4.13
33	North Shore/Coast Garibaldi	268,877	12,233	9.21	98	7.95	8,945	6.74	37	3.02
41	South Vancouver Island	399,431	16,683	8.39	88	5.25	18,292	9.20	64	3.84
42	Central Vancouver Island	240,397	7,496	6.29	63	8.33	10,110	8.48	47	6.27
43	North Vancouver Island	56,114	5,481	19.12	27	4.90	1,560	5.44	18	3.28
51	Northwest	84,482	5,444	12.68	58	10.54	2,073	4.83	28	5.14
52	Northern Interior	151,269	8,641	11.29	71	8.15	3,834	5.01	33	3.82
53	Northeast	65,016	4,351	13.52	30	6.85	1,399	4.35	18	4.14
	N.S.	-	12		-		24		-	-
	Provincial Total	**4,141,272**	**205,384**	**10.10**	**1,432**	**6.92**	**139,885**	**6.88**	**821**	**4.00**

	Health Service Delivery Area	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate[1]	Cesarean Total	Cesarean Rate[1]	Pre-term Total	Pre-term Rate[1]	Teenage Mother Total	Teenage Mother Rate[1]	Elderly Gravida Total	Elderly Gravida Rate[1]
11	East Kootenay	119	34.14	670	192.20	149	42.74	327	93.80	434	124.50
12	Kootenay Boundary	167	51.23	715	219.33	206	63.19	157	48.16	520	159.51
13	Okanagan	677	51.49	2,983	226.88	900	68.45	724	55.07	2,012	153.03
14	Thompson Cariboo Shuswap	537	54.53	2,654	269.52	694	70.48	742	75.35	1,238	125.72
21	North Fraser	700	47.14	3,394	228.55	914	61.55	917	61.75	1,774	119.46
22	West Fraser	1,493	52.44	6,569	230.74	2,015	70.78	799	28.07	6,383	224.21
23	Central Fraser	1,922	53.79	8,826	247.01	2,414	67.56	1,132	31.68	5,942	166.29
31	Richmond	399	50.24	2,056	258.88	484	60.94	108	13.60	2,101	264.54
32	Vancouver	1,533	54.15	6,871	242.71	2,019	71.32	527	18.62	7,794	275.32
33	North Shore/Coast Garibaldi	515	42.10	2,902	237.23	791	64.66	333	27.22	3,477	284.23
41	South Vancouver Island	832	49.87	4,322	259.07	1,180	70.73	798	47.83	3,299	197.75
42	Central Vancouver Island	328	43.76	1,792	239.06	524	69.90	584	77.91	1,087	145.01
43	North Vancouver Island	266	48.53	1,254	228.79	384	70.06	479	87.39	804	146.69
51	Northwest	238	43.72	1,330	244.31	380	69.80	544	99.93	592	108.74
52	Northern Interior	421	48.72	2,074	240.02	515	59.60	673	77.88	862	99.76
53	Northeast	178	40.91	932	214.20	212	48.72	366	84.12	424	97.45
	N.S.	3		2		3		1		4	
	Provincial Total	**10,328**	**50.29**	**49,346**	**240.26**	**13,784**	**67.11**	**9,211**	**44.85**	**38,747**	**188.66**

Please refer to footnotes on page 191

TABLE D

MORTALITY IN BRITISH COLUMBIA BY HEALTH SERVICE DELIVERY AREA

BRITISH COLUMBIA, 1998-2002

		01 All Causes of Death						02 All Cancer Sites						03 Lung Cancer						04 End/Nut/Met. Diseases etc.					
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.00		2,706	↘	0.94		1,141	1.02		781		0.94		444	1.15	*	234	↗	1.02		151	1.23	*	111	↗	0.62	*	42
12	Kootenay Boundary	1.05	*	3,410	↘	1.11	*	1,349	1.01		905	↘	1.04		504	0.99		231		1.11		155	1.18		128	↗	1.46		51
13	Okanagan	0.96	*	14,112	↘	1.00		4,983	0.98		3,956	↘	1.05		2,050	0.99		1,041		1.08		612	0.91	*	450		1.02		157
14	Thompson Cariboo Shuswap	1.12	*	7,632	↘	1.26	*	3,766	1.03		2,052	↘	1.08	*	1,278	1.09	*	583	↘	1.16	*	399	1.09		247	↗	1.18		111
21	North Fraser	1.04	*	8,981	↘	1.11	*	3,599	1.03		2,440		1.10	*	1,336	1.02		624		1.24	*	403	1.17	*	337	↗	1.26		152
22	West Fraser	1.02	*	15,989	↘	0.87	*	6,426	1.04	*	4,413	↘	0.99		2,520	1.06		1,162	↘	1.01		729	1.09	*	560	↗	0.93		210
23	Central Fraser	0.93	*	17,042	↘	0.92	*	7,009	0.97	*	4,882	↘	0.99		2,730	0.91	*	1,197	↘	0.96		740	0.96		579	↗	1.06		254
31	Richmond	0.82	*	4,029	↘	0.64	*	1,547	0.86	*	1,182	↘	0.82	*	686	0.92		330	↘	0.82	*	195	0.69		143	↗	0.63	*	51
32	Vancouver	1.02	*	19,747	↘	1.08	*	7,932	0.96	*	4,852	↘	0.91	*	2,531	0.98		1,262	↘	0.88	*	704	1.02		646	↗	0.99		234
33	North Shore/Cst. Garibaldi	0.94	*	8,945	↘	0.81	*	3,259	0.94	*	2,476	↘	0.87	*	1,316	0.87	*	593		0.78	*	346	0.91		288	↗	0.90		102
41	South Vancouver Island	0.98	*	18,292	↘	0.98		5,786	1.04	*	5,028	↘	1.07	*	2,406	1.01		1,241		1.01		652	0.83	*	517		0.99		200
42	Central Vancouver Island	1.02		10,110	↘	1.10	*	4,112	1.03		2,898	↘	1.08	*	1,620	0.98		733	↘	1.04		459	0.96		321	↗	0.92		116
43	North Vancouver Island	1.12	*	1,560	↘	1.26	*	866	1.10	*	453		1.11		295	1.36	*	149	↗	1.27		105	1.04		47	↗	0.75		19
51	Northwest	1.23	*	2,073	↘	1.31	*	1,250	1.02		517	↘	1.01		366	0.98		132		1.01		100	1.40	*	76	↗	1.65		43
52	Northern Interior	1.21	*	3,834	↘	1.17	*	2,204	1.18	*	1,117		1.08		753	1.27	*	321	↘	1.02		228	1.27	*	130	↘	0.64	*	60
53	Northeast	1.11	*	1,399	↘	1.06		771	1.00		363		0.90		237	1.21		116		1.10		79	1.28		52	↗	1.34		35
	N.S.	-		24		-		21	-		2		-		1	-		1		-		1	-		-		-		-
	Provincial Total	**1.00**		**139,885**	↘	**1.00**		**56,021**	**1.00**		**38,317**	↘	**1.00**		**21,073**	**1.00**		**9,950**	↘	**1.00**		**6,058**	**1.00**		**4,632**	↗	**1.00**		**1,837**

		05 Diabetes						06 Circulatory System						07 Ischaemic Heart Disease						08 Cerebrovascular Disease/Stroke					
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.12		78		0.73		31	0.99		926	↘	0.92		269	0.93		439	↘	0.98		153	0.89		188	↘	0.86		42
12	Kootenay Boundary	1.29	*	109	↗	1.26		41	1.07	*	1,249	↘	0.97		333	1.17	*	684	↘	0.99		200	0.82	*	221	↘	1.01		50
13	Okanagan	0.89	*	344	↗	0.84		116	0.95	*	5,104	↘	0.94		1,188	0.89	*	2,393	↘	0.90	*	634	0.92	*	1,136	↘	0.93		208
14	Thompson Cariboo Shuswap	1.11		196	↗	1.23		89	1.14	*	2,608	↘	1.24	*	932	1.03		1,207	↘	1.15	*	498	1.08		551	↘	1.31	*	167
21	North Fraser	1.26	*	280	↗	1.63	*	129	1.06	*	3,267	↘	1.11	*	830	1.16	*	1,767	↘	1.13		478	0.93		653	↘	0.99		130
22	West Fraser	1.12	*	441	↗	1.05		167	1.08	*	5,841	↘	0.98		1,508	1.12	*	2,975	↘	1.03		875	1.09	*	1,348	↘	0.93		264
23	Central Fraser	0.99		462	↗	1.08		203	0.96	*	6,124	↘	0.94		1,624	1.05	*	3,321	↘	0.99		955	0.94	*	1,364	↘	0.84	*	283
31	Richmond	0.91		112		0.64	*	41	0.87	*	1,443	↘	0.69	*	377	0.89	*	740	↘	0.72	*	207	0.94		356	↘	0.81		76
32	Vancouver	0.96		467	↗	0.94		172	0.97	*	6,659	↘	1.03		1,714	0.97		3,261	↘	0.90	*	911	1.05		1,677	↘	1.17	*	351
33	North Shore/Cst. Garibaldi	0.86	*	211		0.74	*	66	0.95	*	3,185	↘	0.77	*	736	0.91	*	1,526	↘	0.79	*	413	1.07		823	↘	0.73	*	142
41	South Vancouver Island	0.80	*	387		0.94		143	0.94	*	6,549	↘	0.92	*	1,273	0.88	*	3,000	↘	0.91	*	712	0.98		1,589	↘	0.94		231
42	Central Vancouver Island	0.95		247	↗	0.81		84	1.04	*	3,672	↘	1.13	*	1,050	1.06	*	1,879	↘	1.20	*	611	1.02		820	↘	1.17		189
43	North Vancouver Island	1.14		40	↗	0.79		16	1.07		481	↘	1.27	*	203	0.95		217	↘	1.26		110	1.20		118		1.53		46
51	Northwest	1.34	*	56	↗	1.36		28	1.24	*	638	↘	1.42	*	285	1.07		284	↘	1.45	*	146	1.21	*	134		1.57	*	51
52	Northern Interior	1.39	*	109		0.82		53	1.14	*	1,118	↘	1.16	*	487	1.05		526	↘	1.19	*	272	1.26	*	265	↘	1.14		92
53	Northeast	1.39	*	43	↗	1.76		30	1.15	*	454	↘	1.21		187	1.31	*	262	↘	1.51	*	129	0.78	*	67	↘	0.61		15
	N.S.	-		-		-		-	-		3		-		2	-		1		-		1	-		2		-		1
	Provincial Total	**1.00**		**3,582**	↗	**1.00**		**1,409**	**1.00**		**49,321**	↘	**1.00**		**12,998**	**1.00**		**24,482**	↘	**1.00**		**7,305**	**1.00**		**11,312**	↘	**1.00**		**2,338**

		09 Arteries/Arterioles/Capillaries						10 Respiratory System						11 Pneumonia and Influenza						12 Chronic Lung Disease					
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	0.94		49	↘	0.47	*	10	0.96		268	↘	1.16		72	0.90		107		1.27		20	1.07		123	↘	1.26		42
12	Kootenay Boundary	1.38	*	90	↘	1.38		29	0.89	*	314		1.11		71	0.83	*	128		2.20	*	28	0.96		136		0.63	*	32
13	Okanagan	1.07		324	↘	1.17		75	0.94	*	1,539	↘	0.97		307	0.93		662	↘	0.88		73	0.97		651		1.09		176
14	Thompson Cariboo Shuswap	1.21	*	156	↘	1.41		61	1.13	*	762		1.38	*	244	0.95		268		1.31		65	1.33	*	378	↗	1.41	*	131
21	North Fraser	0.94		162	↘	0.89		49	1.02		944		1.21		204	1.01		409		1.38		56	1.04		393		1.05		100
22	West Fraser	0.99		291	↘	0.78		72	1.09	*	1,733		0.93		402	1.16	*	816	↘	0.81		119	1.06		671		1.02		202
23	Central Fraser	0.99		348	↘	0.83		77	0.87	*	1,649	↘	0.82	*	353	0.86	*	711		0.77	*	99	0.85	*	654	↘	0.78	*	169
31	Richmond	0.80		73	↘	1.31		31	0.88	*	435		0.49	*	70	0.93		200		0.39	*	21	0.81	*	160	↘	0.38	*	28
32	Vancouver	0.85	*	320	↘	1.13		87	1.08	*	2,213		1.08		462	1.18	*	1,101		1.23		165	0.95		766		1.03		199
33	North Shore/Cst. Garibaldi	0.88		163	↘	0.94		41	1.04		1,042	↘	0.87		198	1.18	*	520	↘	0.91		63	0.93		375	↘	0.81		105
41	South Vancouver Island	1.03		396	↘	0.92		69	0.94	*	1,988	↘	0.96		327	0.89	*	845	↘	0.85		78	0.96		798		0.98		172
42	Central Vancouver Island	1.08		215	↘	0.92		55	0.94	*	994		1.05		250	0.83	*	374	↘	0.77		58	1.00		443		1.08		134
43	North Vancouver Island	1.30		32	↘	0.94		8	0.95		122		0.95		38	0.65	*	35		0.75		6	1.16		62		1.02		20
51	Northwest	0.88		25	↘	0.71		12	1.46	*	214		1.20		73	1.53	*	91		1.13		23	1.29	*	80	↗	1.24		29
52	Northern Interior	1.14		62	↘	1.15		28	1.36	*	379		1.22		131	1.16		134	↘	1.22		34	1.70	*	200	↗	1.56	*	75
53	Northeast	1.33		29		1.55		14	1.24	*	141		1.37		45	1.19		57		2.12		16	1.45	*	68		1.10		23
	N.S.	-		-		-		-	-		-		-		-	-		-		-		-	-		-		-		-
	Provincial Total	**1.00**		**2,735**	↘	**1.00**		**718**	**1.00**		**14,737**	↘	**1.00**		**3,247**	**1.00**		**6,458**	↘	**1.00**		**924**	**1.00**		**5,958**		**1.00**		**1,637**

Please refer to footnotes on page 191

TABLE D

SUMMARY STATISTICS BY HEALTH SERVICE DELIVERY AREA

BRITISH COLUMBIA, 1998-2002

		13 Digestive System							14 Motor Vehicle Accidents							15 Accidental Falls							16 Suicide						
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	0.99		104		0.80		49	1.69	*	65		1.77	*	58	0.88		28		1.41		8	1.27		56		1.23		54
12	Kootenay Boundary	1.00		126		1.15		62	2.21	*	88		2.42	*	79	1.48	*	59		0.75		6	1.27		58		1.21		55
13	Okanagan	0.99		553		1.01		212	1.23	*	190	↘	1.24	*	153	1.03		184		1.26		47	1.09		187		1.18		166
14	Thompson Cariboo Shuswap	1.25	*	332	↘	1.45	*	189	2.26	*	236	↘	2.29	*	216	1.51	*	115		1.81	*	42	1.24	*	148	↘	1.33	*	137
21	North Fraser	1.05		343	↘	1.02		143	1.18		140	↘	1.20		127	0.79	*	83		1.02		27	0.99		128	↘	0.96		121
22	West Fraser	0.95		572	↘	0.81	*	247	0.60	*	156	↘	0.59	*	137	0.85	*	163	↘	0.69	*	41	0.85	*	250	↘	0.80	*	235
23	Central Fraser	0.88	*	622	↘	0.87	*	300	0.88		250	↘	0.90		224	0.66	*	145	↘	0.53	*	29	0.81	*	256	↘	0.82	*	239
31	Richmond	0.74	*	142	↘	0.45	*	49	0.52	*	43	↘	0.56	*	36	0.81		47		0.48	*	10	0.54	*	51	↘	0.45	*	46
32	Vancouver	1.14	*	844	↘	1.26	*	389	0.65	*	190	↘	0.51	*	153	1.02		250	↘	1.66	*	91	1.03		348	↘	0.99		329
33	North Shore/Cst. Garibaldi	0.90	*	330	↘	0.84		134	0.71	*	92	↘	0.77	*	83	0.90		104	↘	1.08		25	0.87		130	↘	0.85		112
41	South Vancouver Island	0.93		656	↘	0.96		242	0.51	*	103	↘	0.55	*	85	1.23	*	294		1.15		43	1.13		253		1.14		220
42	Central Vancouver Island	1.00		381		1.03		167	0.94		110	↘	1.02		94	1.14		132	↘	0.82		23	1.19	*	159		1.30	*	151
43	North Vancouver Island	1.23		68		1.11		43	0.89		24	↘	1.01		23	1.04		16		0.44		6	1.27		40	↘	1.27		38
51	Northwest	1.45	*	97		1.40		63	1.87	*	74	↘	1.95	*	70	1.16		21		0.75		8	1.53	*	69		1.61	*	68
52	Northern Interior	1.26	*	158	↘	1.24		102	2.18	*	157	↘	1.95	*	145	1.17		40	↘	0.38	*	11	1.09		89	↘	1.16		87
53	Northeast	0.91		45	↘	1.00		26	2.39	*	72		2.29	*	71	1.27		18		0.81		6	0.78		26	↘	0.89		26
	N.S.	-		-		-		-	-		1		-		1	-		-		-		-	-		4		-		4
	Provincial Total	**1.00**		**5,373**	↘	**1.00**		**2,417**	**1.00**		**1,991**	↘	**1.00**		**1,755**	**1.00**		**1,699**	↘	**1.00**		**423**	**1.00**		**2,252**	↘	**1.00**		**2,088**

		17 Alcohol-Related Deaths							18 Medically Treatable Disease							19 Drug-Induced Deaths						
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.25	*	234	↗	1.30	*	186	1.24		16		1.35		16	0.42	*	18		0.43	*	18
12	Kootenay Boundary	1.30	*	267	↗	1.43	*	196	0.97		13		1.19		13	0.89		39	↗	0.76		37
13	Okanagan	1.04		890	↗	1.27	*	665	0.62	*	30	↘	0.74		30	0.97		156	↗	1.00		150
14	Thompson Cariboo Shuswap	1.34	*	669	↗	1.53	*	538	1.14		40		1.17		40	0.91		106	↗	1.02		104
21	North Fraser	0.79	*	431	↗	0.78	*	325	1.34		48	↗	1.36		48	1.07		137	↗	1.02		133
22	West Fraser	0.82	*	877	↗	0.65	*	646	0.90		76		0.85		76	0.85	*	259	↗	0.84	*	251
23	Central Fraser	0.69	*	853	↗	0.73	*	660	1.05		96		0.98		96	0.88	*	283	↗	0.94		275
31	Richmond	0.48	*	165	↗	0.36	*	120	0.50	*	14		0.47	*	14	0.32	*	31		0.28	*	28
32	Vancouver	1.19	*	1,475	↗	1.25	*	1,205	1.11		103	↘	1.08		103	1.68	*	594		1.62	*	580
33	North Shore/Cst. Garibaldi	0.88	*	542	↗	0.78	*	383	1.05		46		1.08		46	0.68	*	100	↗	0.67	*	95
41	South Vancouver Island	1.08	*	1,107	↗	1.03		748	0.89		56		0.97		56	1.20	*	260	↗	1.18	*	241
42	Central Vancouver Island	1.04		660	↗	1.07		479	0.88		34		0.84		34	0.91		114	↗	0.94		109
43	North Vancouver Island	1.73	*	200	↗	1.64	*	164	1.17		11		1.24		11	1.25		40	↗	1.28		39
51	Northwest	1.81	*	275	↗	1.82	*	242	0.99		13	↘	0.81		13	0.75		35		0.71	*	34
52	Northern Interior	1.16	*	322	↗	1.04		272	1.43		34		1.34		34	0.76	*	64	↗	0.75	*	62
53	Northeast	1.24	*	134	↗	1.16		117	1.39		13	↗	1.53		13	0.43	*	15		0.36	*	14
	N.S.	-		2		-		2	-		-		-		-	-		3	-	-		3
	Provincial Total	**1.00**		**9,103**	↗	**1.00**		**6,948**	**1.00**		**643**	↘	**1.00**		**643**	**1.00**		**2,254**	↗	**1.00**		**2,173**

Please refer to footnotes on page 191

TABLE E
SUMMARY STATISTICS BY HEALTH AUTHORITY
BRITISH COLUMBIA, 1998-2002

	Health Authority	2002 Population	Live Birth Total	Live Birth Rate	Stillbirth Total	Stillbirth Rate[2]	Death Total	Death Rate	Infant Death Total	Infant Death Rate[1]
01	Interior	638,246	29,741	8.70	176	5.88	27,860	2.71	120	4.03
02	Fraser	1,421,216	79,051	11.53	547	6.87	42,012	3.52	306	3.87
03	Vancouver Coastal	1,035,101	48,484	9.57	372	7.61	32,721	3.83	187	3.86
04	Vancouver Island	695,942	29,660	8.55	178	5.97	29,962	6.01	120	4.35
05	Northern	300,767	18,436	12.16	159	8.55	7,306	4.82	79	4.29
	N.S.	-	12	-	-	-	24	-	-	0.00
	Provincial Total	**4,141,272**	**205,384**	**10.10**	**1,432**	**6.92**	**139,885**	**6.88**	**821**	**4.00**

	Health Authority	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate[1]	Cesarean Total	Cesarean Rate[1]	Pre-term Total	Pre-term Rate[1]	Teenage Mother Total	Teenage Mother Rate[1]	Elderly Gravida Total	Elderly Gravida Rate[1]
01	Interior	1,500	50.44	7,022	236.11	1,949	65.53	1,950	65.57	4,204	141.35
02	Fraser	4,115	52.06	18,789	237.68	5,343	67.59	2,848	36.03	14,099	178.35
03	Vancouver Coastal	2,447	50.47	11,829	243.98	3,294	67.94	968	19.97	13,372	275.80
04	Vancouver Island	1,426	48.08	7,368	248.42	2,088	70.40	1,861	62.74	5,190	174.98
05	Northern	837	45.40	4,336	235.19	1,107	60.05	1,583	85.86	1,878	101.87
	N.S.	3	-	2	-	3	-	1	-	4	-
	Provincial Total	**10,328**	**50.29**	**49,346**	**240.26**	**13,784**	**67.11**	**9,211**	**44.85**	**38,747**	**188.66**

Note: Total is the number of events in the specified category for the 1998 to 2002 period.
Infant Death - deaths of children under one year of age.
Low Birth Weight live births - live births with birth weight <2,500 grams.
Cesarean - live births delivered by cesarean section.
Pre-term - live births with gestational age <37 weeks.
Teenage Mother - live births to mothers under 20 years of age.
Elderly Gravida - live births to mothers 35 years of age or older.
Death is the total number of deaths from the specified cause for the 1998 to 2002 period.
D<75 is the number of deaths under 75 years of age from the specified cause.
SMR - Standardized Mortality Ratio.
PYLLI - Potential Years of Life Lost Index.
Rate - per 1,000 population in the specified area.
Rate[1] - rate per 1,000 live births in the specified area.
Rate[2] - per 1,000 total births in the specified area.
SMR, PYLLI, and Rate are based on the five year period from 1998 to 2002.
* Statistical testing indicates that observed deaths are statistically different from the expected deaths ($p<0.05$, two tailed).
+ denotes statistical significance based on less than five cases.
TR - Trend in ASMR based on three year moving average from 1986 to 2002 (See Glossary under Trend Analysis of ASMR for a full explanation):
↗ indicates a statistically significantly positive (increasing) trend and
↘ indicates a statistically significantly negative (decreasing) trend (in areas with an average of less than 1 death per year in the 17 year period, 1986 to 2002, trends are not shown).
TR* - Trend reflects change in *Medical Certification of Death* form introduced in 1993.
HSDA 32 Vancouver may include unspecified Vancouver addresses.
N.S. - Not Stated.
Non-residents are excluded.

TABLE F

MORTALITY IN BRITISH COLUMBIA BY HEALTH AUTHORITY

BRITISH COLUMBIA, 1998-2002

		01 All Causes of Death							02 All Cancer Sites							03 Lung Cancer							04 End/Nut/Met. Diseases etc.						
	Health Authority	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.01	*	27,860	↘	1.09	*	11,239	1.00		7,694	↘	1.05	*	4,276	1.03		2,089		1.10	*	1,317	1.02		936	↗	1.08		361
02	Fraser	0.99	*	42,012	↘	0.94	*	17,034	1.01		11,735	↘	1.01		6,586	0.99		2,983	↘	1.03		1,872	1.05		1,476	↗	1.04		616
03	Vancouver Coastal	0.97	*	32,721	↘	0.93	*	12,738	0.94	*	8,510	↘	0.88	*	4,533	0.94	*	2,185	↘	0.84	*	1,245	0.97		1,077	↗	0.91		387
04	Vancouver Island	1.00		29,962	↘	1.05	*	10,764	1.04	*	8,379	↘	1.08	*	4,321	1.02		2,123		1.04		1,216	0.88	*	885	↗	0.94		335
05	Northern	1.20	*	7,306	↘	1.19	*	4,225	1.10	*	1,997	↘	1.02		1,356	1.18	*	569		1.03		407	1.31	*	258	↗	1.07		138
	N.S.	-		24	↘	-		21	-		2	↘	-		1	-		1		-		1	-		-		-		-
	Provincial Total	**1.00**		**139,885**	↘	**1.00**		**56,021**	**1.00**		**38,317**	↘	**1.00**		**21,073**	**1.00**		**9,950**	↘	**1.00**		**6,058**	**1.00**		**4,632**	↗	**1.00**		**1,837**

		05 Diabetes							06 Circulatory System							07 Ischaemic Heart Disease							08 Cerebrovascular Disease/Stroke						
	Health Authority	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.01		727	↗	1.00		277	1.01		9,887	↘	1.03		2,722	0.96	*	4,723	↘	1.00		1,485	0.94	*	2,096	↘	1.05		467
02	Fraser	1.09	*	1,183	↗	1.17	*	499	1.03	*	15,232	↘	0.99		3,962	1.10	*	8,063	↘	1.03		2,306	0.99		3,385	↘	0.91		677
03	Vancouver Coastal	0.92	*	790	↗	0.83	*	279	0.95	*	11,287	↘	0.90	*	2,827	0.94	*	5,527	↘	0.84	*	1,531	1.04		2,856	↘	0.99		569
04	Vancouver Island	0.87	*	674	↗	0.88		243	0.98	*	10,702	↘	1.03		2,526	0.94	*	5,096	↘	1.04		1,433	1.00		2,527	↘	1.07		466
05	Northern	1.38	*	208	↗	1.16		111	1.17	*	2,210	↘	1.24	*	959	1.11	*	1,072	↘	1.32	*	547	1.14	*	466	↘	1.16		158
	N.S.	-		-	-	-		-	-		3	-	-		2	-		1	-	-		1	-		2	-	-		1
	Provincial Total	**1.00**		**3,582**	↗	**1.00**		**1,409**	**1.00**		**49,321**	↘	**1.00**		**12,998**	**1.00**		**24,482**	↘	**1.00**		**7,385**	**1.00**		**11,312**	↘	**1.00**		**2,338**

		09 Arteries/Arterioles/Capillaries							10 Respiratory System							11 Pneumonia and Influenza							12 Chronic Lung Disease						
	Health Authority	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.12	*	619	↘	1.19		175	0.98		2,883		1.13	*	694	0.92	*	1,165		1.22		186	1.06	*	1,288		1.15		381
02	Fraser	0.98		801	↘	0.83	*	198	0.98		4,326		0.93		959	1.00		1,936	↘	0.90		274	0.96	*	1,718		0.92		471
03	Vancouver Coastal	0.85	*	556	↘	1.11		159	1.04	*	3,690	↘	0.93		730	1.15	*	1,821	↘	1.00		249	0.93	*	1,301	↘	0.86	*	332
04	Vancouver Island	1.06		643	↘	0.92		132	0.94	*	3,104	↘	1.00		615	0.86	*	1,254	↘	0.82		142	0.98		1,303		1.02		326
05	Northern	1.11		116	↘	1.10		54	1.36	*	734		1.24	*	249	1.27	*	282	↘	1.38		73	1.54	*	348	↗	1.38	*	127
	N.S.	-		-	-	-		-	-		-	-	-		-	-		-	-	-		-	-		-	-	-		-
	Provincial Total	**1.00**		**2,735**	↘	**1.00**		**718**	**1.00**		**14,737**	↘	**1.00**		**3,247**	**1.00**		**6,458**	↘	**1.00**		**924**	**1.00**		**5,958**		**1.00**		**1,637**

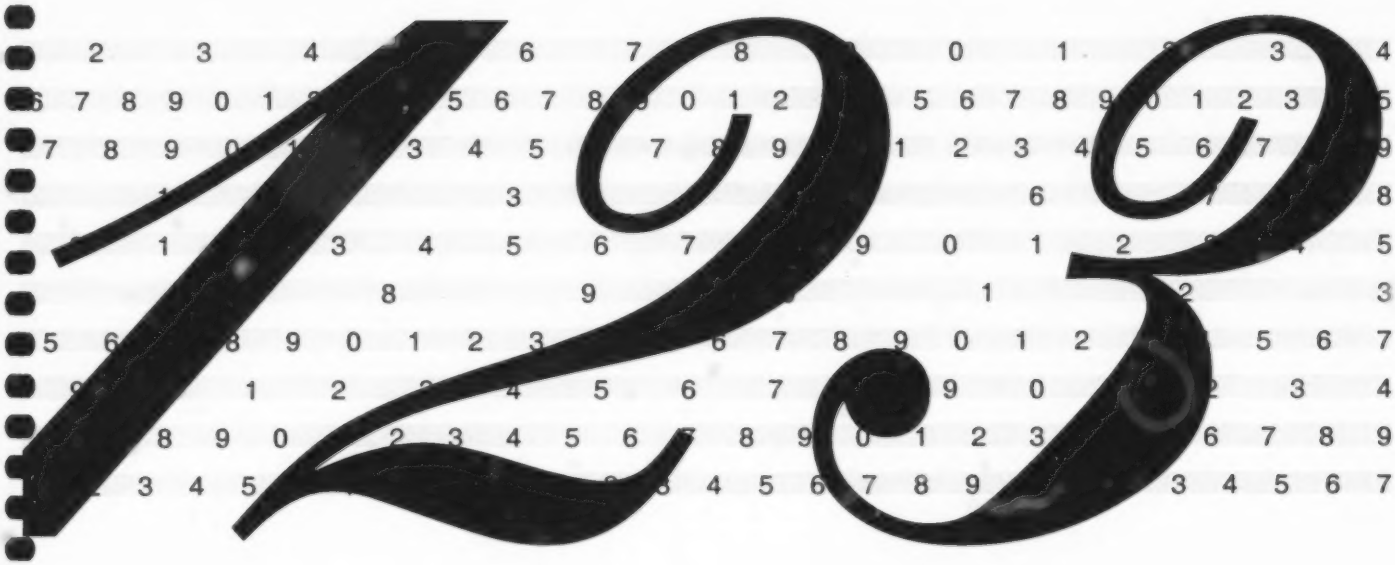
		13 Digestive System							14 Motor Vehicle Accidents							15 Accidental Falls							16 Suicide						
	Health Authority	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.06		1,115	↘	1.14	*	512	1.72	*	579	↘	1.79	*	506	1.18	*	386		1.40	*	103	1.18	*	449	↘	1.24	*	412
02	Fraser	0.94	*	1,537	↘	0.87	*	690	0.83	*	546	↘	0.83	*	488	0.76	*	391	↘	0.68	*	97	0.85	*	634	↘	0.84	*	595
03	Vancouver Coastal	1.01		1,316	↘	1.00		572	0.64	*	325	↘	0.58	*	272	0.95		401	↘	1.31	*	126	0.91	*	529	↘	0.87	*	487
04	Vancouver Island	0.97		1,105	↘	1.00		452	0.69	*	237	↘	0.75	*	202	1.19	*	442		0.97		72	1.16	*	452		1.20	*	409
05	Northern	1.24	*	300	↘	1.24	*	191	2.14	*	303	↘	2.02	*	286	1.19		79	↘	0.58	*	25	1.15		184	↘	1.23	*	181
	N.S.	-		-	-	-		-	-		1	-	-		1	-		-	-	-		-	-		4	-	-		4
	Provincial Total	**1.00**		**5,373**	↘	**1.00**		**2,417**	**1.00**		**1,991**	↘	**1.00**		**1,755**	**1.00**		**1,699**	↘	**1.00**		**423**	**1.00**		**2,252**	↘	**1.00**		**2,088**

		17 Alcohol-Related Deaths							18 Medically Treatable Disease							19 Drug-Induced Deaths						
	Health Authority	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.18	*	2,060	↗	1.38	*	1,585	0.90		99	↘	1.01		99	0.88	*	319	↗	0.91		309
02	Fraser	0.76	*	2,161	↗	0.71	*	1,631	1.04		220	↗	0.99		220	0.90	*	679	↗	0.91	*	659
03	Vancouver Coastal	0.99		2,182	↗	0.98		1,708	0.99		163	↘	0.97		163	1.22	*	725		1.19	*	703
04	Vancouver Island	1.11	*	1,967	↗	1.09	*	1,391	0.91		101		0.95		101	1.10	*	414	↗	1.11		389
05	Northern	1.36	*	731	↗	1.28	*	631	1.30		60		1.23		60	0.69	*	114		0.66	*	110
	N.S.	-		2	-	-		2	-		-	-	-		-	-		3	-	-		3
	Provincial Total	**1.00**		**9,103**	↗	**1.00**		**6,948**	**1.00**		**643**	↘	**1.00**		**643**	**1.00**		**2,254**	↗	**1.00**		**2,173**

Please refer to footnotes on page 191

Appendix 4

Health Status Indicator
Electronic Data Order Form



Preamble to Appendix 4

The Health Status Indicator Electronic Data Order Form, can be used to order copies of the data used to produce this report. A number of files are available for single years 1998 through 2002, and aggregated for years 1998–2002. The file format descriptions provided indicate the field columns, length, and information stored in that field. In each file, data for the diagnostic group requested is aggregated by these fields.

In death data, the "all causes of death" file includes data for each major diagnostic and all sub-diagnostic codes. The files by major diagnosis include data for the relevant sub-diagnoses. Readers wanting to order data are advised to contact the Information and Resource Management Branch of the British Columbia Vital Statistics Agency at the telephone or fax numbers shown on the order form.

BIRTH DATA, SINGLE YEAR – RECORD LAYOUT

COLUMNS	LENGTH	INFORMATION
1	1	"B" – for Birth
2–5	4	Birth year (19xx, where xx = 98,...,02)
6	3	Geographical area (where 1 = LHA, 2 = HSDA, or 3 = HA)
7–10	2	Geographical area number
11	1	Gender (1 = Male, 2 = Female, 9 = Unknown)
12	1	Place of birth (1 = Hospital, 2 = Non-hospital, 9 = Unknown)
13–14	2	Mother's Age Group (01 = less than 15 years, 02 = 15–17 years, 03 = 18–19 years, 04 = 20–24 years,..., 09 = 45+ years)
15	1	Birth Weight Group (1 = less than 1500 gms, 2 = 1500–2499 gms, 3 = 2500–4499 gms, 4 = 4500+ gms, 9 = unknown)
16	1	Gestational Age Group (1 = less than 28 wks, 2 = 28–36 wks, 3 = 37–41 wks, 4 = 42+ wks, 9 = unknown)
17	1	Cesarean delivery (1 = yes, 2 = no)
18	1	Birth type (1 = live, 2 = stillbirth)
19	1	Kind of birth (1 = single, 2 = multiple, 9 = unknown)
20	1	Birth order (1, 2, 3,..., 6+, 9 = unknown)
21–25	5	Number of births

DEATH DATA, SINGLE YEAR – RECORD LAYOUT

COLUMNS	LENGTH	INFORMATION
1	1	"D" – for Death
2–5	4	Death year (19xx, where xx = 98,...,02)
6	3	Geographical area (where 1 = LHA, 2 = HSDA, or 3 = HA)
7–10	2	Geographical area number
11	1	Gender (1 = Male, 2 = Female, 9 = Unknown)
12–13	2	Age Group (01 = less than 1 year, 02 = 1–4 years, ..., 19 = 85+ years, 99 = Unknown)
14–16	3	Underlying cause of death
17–18	2	Major diagnosis category (01, 02, ..., 10)
19–20	2	Sub-diagnosis category (01, 02, ..., 19)
21–22	2	Alcohol related death (01 = yes, 00 = no)
23–24	2	Medically treatable death (01 = yes, 00 = no)
25–30	6	Number of deaths

Note: Mid-year population estimates will be provided on a separate file by 5-year age group and gender for each LHA or HSDA. All data will be provided as a flat ASCII file.

BRITISH COLUMBIA VITAL STATISTICS AGENCY
2002 ANNUAL REPORT

SUMMARY STATISTICS
HEALTH STATUS INDICATOR ELECTRONIC DATA ORDER FORM

Name: _____

Organization: _____

Address: _____

_____

City: _____

Province/State: _____

Postal/Zip Code: _____

Telephone Number: ( ) _____

FAX Number: ( ) _____

e-mail: _____

Send your order and remittance to:

BRITISH COLUMBIA VITAL STATISTICS AGENCY
INFORMATION and RESOURCE MANAGEMENT BRANCH
MINISTRY OF HEALTH PLANNING
PO BOX 9657 STN PROV GOVT
VICTORIA BC V8W 9P3
Phone: (250) 952-2558
FAX: (250) 952-2594

Please make cheque, money order or journal voucher payable to the "Minister of Finance."

The following data are available from 1998 to 2002 by single year (SYS). Within each file, data is aggregated by the data fields shown in the record layout.

BIRTH DATA

DIAGNOSTIC TITLE	GEOG AREA *(circle one)*	UNIT PRICE PER YEAR	YEARS REQUIRED *(circle year(s) required)*					TOTAL PRICE
Live Births	LHA/HSDA	$50	98	99	00	01	02	$ _____
Stillbirths	LHA/HSDA	$50	98	99	00	01	02	$ _____
Low Birth Weight/Live Birth	LHA/HSDA	$50	98	99	00	01	02	$ _____
Cesarean	LHA/HSDA	$50	98	99	00	01	02	$ _____
Pre-term	LHA/HSDA	$50	98	99	00	01	02	$ _____
Teenage Mother	LHA/HSDA	$50	98	99	00	01	02	$ _____
Elderly Gravida	LHA/HSDA	$50	98	99	00	01	02	$ _____
TOTAL								$ _____

DEATH DATA

DIAGNOSTIC TITLE	GEOG AREA (circle one)	UNIT PRICE PER YEAR	YEARS REQUIRED (circle year(s) required)					TOTAL PRICE
All causes of death	LHA/HSDA	$500	98	99	00	01	02	$_____
MAJOR DIAGNOSES (ICD-10 CODES)								
Infectious/parasitic diseases (A00–B99)	LHA/HSDA	$50	98	99	00	01	02	$_____
Cancer (malignant neoplasms) (C00–C97)	LHA/HSDA	$50	98	99	00	01	02	$_____
Endocrine/nutritional/metabolic diseases (E00–E89)	LHA/HSDA	$50	98	99	00	01	02	$_____
Circulatory system diseases (I00–I99)	LHA/HSDA	$50	98	99	00	01	02	$_____
Respiratory system diseases (J00–J99)	LHA/HSDA	$50	98	99	00	01	02	$_____
Digestive system diseases (K00–K93)	LHA/HSDA	$50	98	99	00	01	02	$_____
Congenital anomalies (Q00–Q99)	LHA/HSDA	$50	98	99	00	01	02	$_____
External causes (V01–Y98)	LHA/HSDA	$50	98	99	00	01	02	$_____
SUB-DIAGNOSES (ICD-10 CODES)								
HIV disease (B20–B24)	LHA/HSDA	$50	98	99	00	01	02	$_____
Colorectal cancer (C18–C21)	LHA/HSDA	$50	98	99	00	01	02	$_____
Lung cancer (C33–C34)	LHA/HSDA	$50	98	99	00	01	02	$_____
Female breast cancer (C50.0–C50.9)	LHA/HSDA	$50	98	99	00	01	02	$_____
Diabetes (E10–E14)	LHA/HSDA	$50	98	99	00	01	02	$_____
Cardiovascular disease (I01–I51)	LHA/HSDA	$50	98	99	00	01	02	$_____
Ischemic heart disease (I20–I25)	LHA/HSDA	$50	98	99	00	01	02	$_____
Cerebrovascular disease (I60–I69)	LHA/HSDA	$50	98	99	00	01	02	$_____
Pneumonia/influenza (J10–J18.1, J18.8–J18.9)	LHA/HSDA	$50	98	99	00	01	02	$_____
Chronic lung disease (J41–J44)	LHA/HSDA	$50	98	99	00	01	02	$_____
Chronic liver disease/cirrhosis (K70, K73–K74, K76.0–K76.1)	LHA/HSDA	$50	98	99	00	01	02	$_____
Motor vehicle accidents (V02–V04,..., Y85.0)*	LHA/HSDA	$50	98	99	00	01	02	$_____
Accidental falls (W00–W19)	LHA/HSDA	$50	98	99	00	01	02	$_____
Accidental poisoning (X40–X49)	LHA/HSDA	$50	98	99	00	01	02	$_____
Suicide (X60–X84, Y87.0)	LHA/HSDA	$50	98	99	00	01	02	$_____
Alcohol-related deaths	LHA/HSDA	$50	98	99	00	01	02	$_____
Drug-induced deaths	LHA/HSDA	$50	98	99	00	01	02	$_____
TOTAL								$_____

Notes: *Refer to Table 30 for ICD-10 codes for motor vehicle accidents.

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